2011 Chevrolet Cruze Owner Manual

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This manual describes features that may or may not be on your specific vehicle either because they are options that you did not purchase or due to changes subsequent to the printing of this owner manual. Please refer to the purchase documentation relating to your specific vehicle to confirm each of the features found on your vehicle. For vehicles first sold in Canada, substitute the name “General Motors of Canada Limited” for Chevrolet Motor Division wherever it appears in this manual.

Keep this manual in the vehicle for quick reference.

Canadian Vehicle Owners

Propriétaires Canadiens

A French language copy of this manual can be obtained from your dealer or from:

On peut obtenir un exemplaire de ce guide en français auprès du concessionnaire ou à l'adresse suivante:

Helm, Incorporated
P.O. Box 07130
Detroit, MI 48207

1-800-551-4123
Numéro de poste 6438 de langue française
www.helminc.com

Litho in U.S.A.
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Using this Manual

To quickly locate information about the vehicle, use the Index in the back of the manual. It is an alphabetical list of what is in the manual and the page number where it can be found.

Danger, Warnings, and Cautions

Warning messages found on vehicle labels and in this manual describe hazards and what to do to avoid or reduce them.

Danger indicates a hazard with a high level of risk which will result in serious injury or death.

Warning or **Caution** indicates a hazard that could result in injury or death.

⚠ WARNING
These mean there is something that could hurt you or other people.

Notice: **This means there is something that could result in property or vehicle damage. This would not be covered by the vehicle's warranty.**



A circle with a slash through it is a safety symbol which means “Do Not,” “Do not do this,” or “Do not let this happen.”

Symbols

The vehicle has components and labels that use symbols instead of text. Symbols are shown along with the text describing the operation or information relating to a specific component, control, message, gauge, or indicator.

: This symbol is shown when you need to see your owner manual for additional instructions or information.

: This symbol is shown when you need to see a service manual for additional instructions or information.

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Vehicle Symbol Chart

Here are some additional symbols that may be found on the vehicle and what they mean. For more information on the symbol, refer to the Index.

: Airbag Readiness Light

: Air Conditioning

: Antilock Brake System (ABS)

: Audio Steering Wheel Controls or OnStar®

: Brake System Warning Light

: Charging System

: Cruise Control

: Engine Coolant Temperature

: Exterior Lamps

: Fog Lamps

: Fuel Gauge

: Fuses

: Headlamp High/Low-Beam Changer

: LATCH System Child Restraints

: Malfunction Indicator Lamp

: Oil Pressure

: Power

: Remote Vehicle Start

: Safety Belt Reminders

: Tire Pressure Monitor

: Traction Control

: Windshield Washer Fluid

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✍ NOTES

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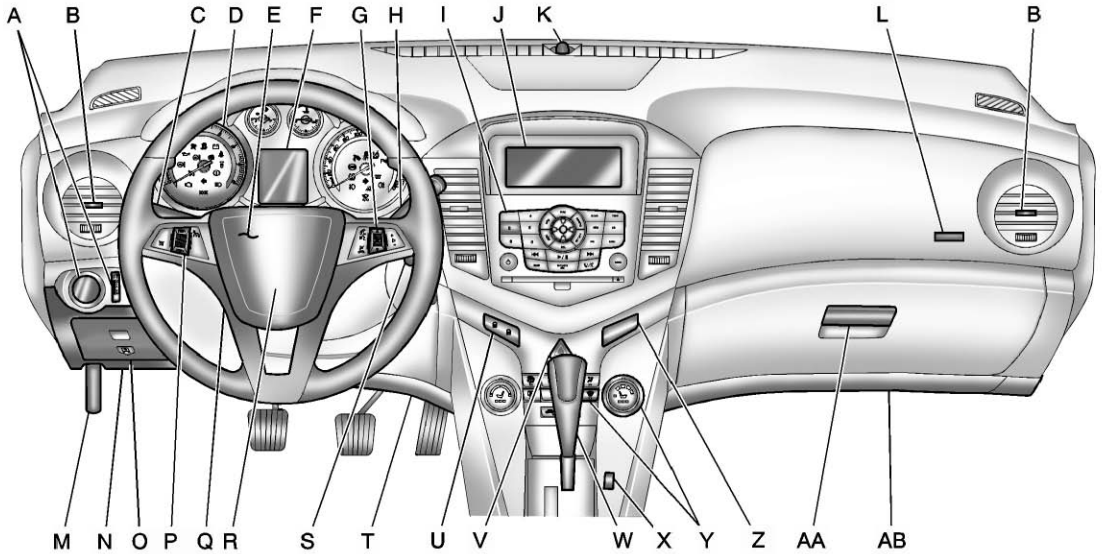
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Instrument Panel

Instrument Panel Overview



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C. Headlamps High-Low Beam. See *Headlamps High-Low Beam on page 6-2*.

Turn and Lane-Change Lever. See *Turn and Lane-Change Signals on page 6-4*.

Driver Information Center (DIC) Buttons. See *Driver Information Center (DIC) on page 5-24*.

D. *Instrument Cluster on page 5-8*.

E. *Horn on page 5-3*.

F. *Driver Information Center (DIC) on page 5-24*.

G. *Steering Wheel Controls on page 5-2*.

H. *Windshield Wiper/Washer on page 5-3*.

I. *Infotainment on page 7-1*.

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J. Infotainment Display Screen.

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L. Passenger Airbag. See *Where Are the Airbags? on page 3-27*.

M. Hood Release. See *Hood on page 10-4*.

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O. *Instrument Panel Fuse Block on page 10-41*.

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Q. *Steering Wheel Adjustment on page 5-2*.

R. Driver Airbag. See *Where Are the Airbags? on page 3-27*.

S. Ignition Switch. See *Ignition Positions on page 9-18*.

T. Driver Knee Airbag. See *Where Are the Airbags? on page 3-27*.

U. *Power Door Locks on page 2-7*.

V. *Hazard Warning Flashers on page 6-3*.

W. Shift Lever. See *Automatic Transmission on page 9-26* or *Manual Transmission on page 9-29*.

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AB. Passenger Knee Airbag. See *Where Are the Airbags? on page 3-27*.

Initial Drive Information

This section provides a brief overview about some of the important features that may or may not be on your specific vehicle.

For more detailed information, refer to each of the features which can be found later in this owner manual.

Remote Keyless Entry (RKE) System

The Remote Keyless Entry (RKE) transmitter will work up to 20 m (65 ft) away from the vehicle.



RKE Transmitter with Remote Start Shown

Press the key release button to extend the key blade. The key can be used for the ignition and all locks.

Press to unlock the driver door or all doors.

Press to lock all doors.

Lock and unlock feedback can be personalized. See *Vehicle Personalization on page 5-34*.

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Press and hold briefly to open the trunk.

Press and hold briefly to locate the vehicle.

Press and hold for at least two seconds to sound the panic alarm.

Press again to cancel the panic alarm.

See *Keys on page 2-2* and *Remote Keyless Entry (RKE) System Operation on page 2-3*.

Remote Vehicle Start

For vehicles with this feature, the engine can be started from outside of the vehicle.

Starting the Vehicle

1. Aim the Remote Keyless Entry transmitter at the vehicle.
2. Press .
3. Immediately after completing Step 2, press and hold until the turn signal lamps flash, or for about 2 seconds if the vehicle is not in view.

When the vehicle starts, the parking lamps will turn on and remain on as long as the engine is running. The doors will be locked and the climate control system may come on.

The engine will continue to run for 10 minutes. Repeat the steps for a 10-minute time extension. Remote start can be extended only once.

Canceling a Remote Start

To cancel a remote start:

- Aim the RKE transmitter at the vehicle and press and hold until the parking lamps turn off.
- Turn on the hazard warning flashers.
- Turn the vehicle on and then off.

See *Remote Vehicle Start on page 2-5*.

Door Locks

To lock or unlock a door from outside the vehicle, use the Remote Keyless Entry (RKE) transmitter. From inside the vehicle, use the power door lock switch.

See *Door Locks on page 2-6*.

Power Door Locks

The power door lock switches are located on the instrument panel.

: Press to unlock the doors.

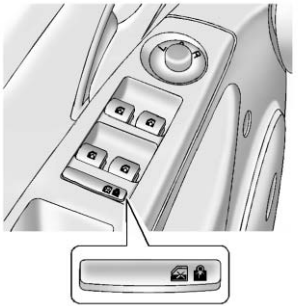
: Press to lock the doors.

See *Power Door Locks on page 2-7*.

Safety Locks

Safety locks will lock the rear windows and not allow the rear doors to be opened from the inside.

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Press to activate the safety locks on the rear doors. The LED will illuminate.

This switch also disables the power window controls on the rear doors.

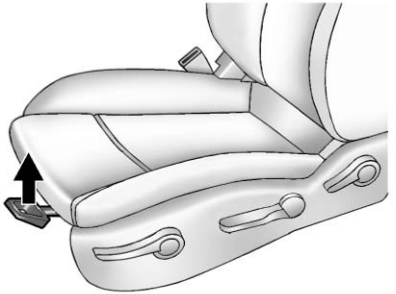
Press again to deactivate the safety locks on the rear doors. The LED will turn off.

If the LED flashes, the feature may not be working properly.

See *Safety Locks on page 2-7*.

Seat Adjustment

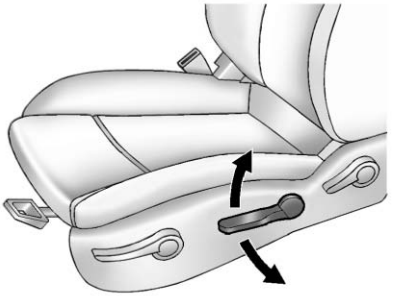
Manual Front Seats



To adjust a manual seat:

1. Pull the handle at the front of the seat.
2. Slide the seat to the desired position and release the handle.
3. Try to move the seat back and forth to be sure it is locked in place.

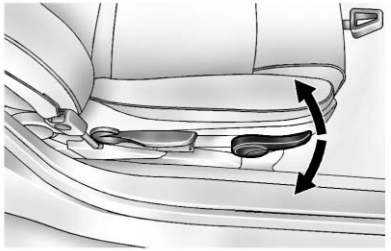
Seat Height Adjuster



If available, move the lever up or down to manually raise or lower the seat.

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Seat Cushion Tilt Feature



If available, move the lever up or down to raise or lower the front of the seat cushion.

See *Seat Adjustment on page 3-3*.

Reclining Seatbacks



To recline the seatback:

1. Lift the lever.
2. Move the seatback to the desired position, then release the lever to lock the seatback in place.
3. Push and pull on the seatback to make sure it is locked.

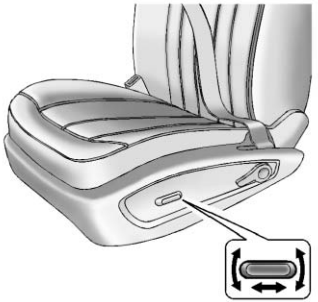
To return the seatback to an upright position:

1. Lift the lever fully without applying pressure to the seatback, and the seatback returns to the upright position.
2. Push and pull on the seatback to make sure it is locked.

See *Reclining Seatbacks on page 3-5*.

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Power Driver Seat



To adjust a power driver seat, if equipped:

- Move the seat forward or rearward by sliding the control forward or rearward.
- Raise or lower the front part of the seat cushion by moving the front of the control up or down.
- Raise or lower the entire seat by moving the rear of the control up or down.

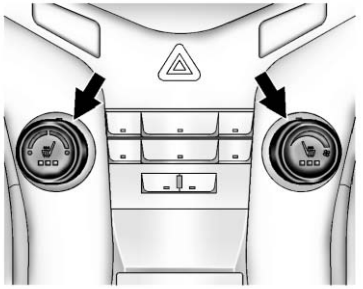
See *Power Seat Adjustment on page 3-4*.

Rear Seats

The rear seatbacks can be folded.

For detailed instructions, see *Rear Seats on page 3-8*.

Heated Seats



On vehicles with heated front seats, the controls are on the center console. The engine must be running to operate the heated seats.

Press or to heat the driver or passenger seat cushion and seatback.

Press the control once for the highest setting. With each press of the control, the heated seat will change to the next lower setting, and then the off setting. Three lights indicate the highest setting and one light the lowest.

See *Heated Front Seats on page 3-7* for more information.

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Head Restraint Adjustment

Do not drive until the head restraints for all occupants are installed and adjusted properly.

To achieve a comfortable seating position, change the seatback recline angle as little as necessary while keeping the seat and the head restraint height in the proper position.

For more information see *Head Restraints on page 3-2* and *Seat Adjustment on page 3-3*.

Safety Belts



Refer to the following sections for important information on how to use safety belts properly.

- *Safety Belts on page 3-9*.
- *How to Wear Safety Belts Properly on page 3-13*.
- *Lap-Shoulder Belt on page 3-18*.
- *Lower Anchors and Tethers for Children (LATCH System) on page 3-49*.

Sensing System for Passenger Airbag



United States



Canada

The passenger sensing system will turn off the right front passenger frontal airbag and the passenger knee airbag under certain conditions. The driver airbags, seat-mounted side impact airbags, and roof-rail airbags are not affected by the passenger sensing system. See *Passenger Sensing System on page 3-33* for more information.

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The passenger airbag status indicator will be visible on the instrument panel when the vehicle is started. See *Passenger Airbag Status Indicator on page 5-12*.

Mirror Adjustment

Exterior

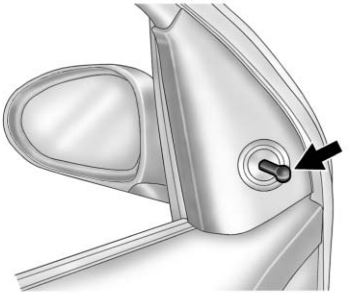


Controls for the outside power mirrors are on the driver door.

1. Turn the selector switch to L (left) or R (right) to choose the driver or passenger mirror.
2. Move the control to adjust the mirror.
3. Turn the selector switch to the O position to deselect the mirror.

See *Power Mirrors on page 2-12*.

If the vehicle has heated mirrors, see *Heated Mirrors on page 2-12*.



Vehicles with a manual mirror adjustment have controls next to each mirror.

See *Manual Mirrors on page 2-11*.

Interior

Adjust the inside rearview mirror by moving it up and down or side to side. Adjust the mirror to avoid glare from the headlamps behind you. Push the tab forward for daytime use and pull it for nighttime use.

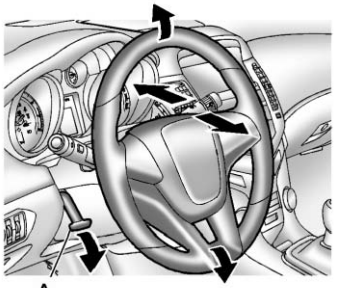
See *Manual Rearview Mirror on page 2-12*.

The vehicle may have an automatic dimming inside rearview mirror. Automatic dimming reduces the glare of lights from behind the vehicle. The dimming feature and indicator light come on each time the vehicle is started.

See *Automatic Dimming Rearview Mirror on page 2-13*.

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Steering Wheel Adjustment



To adjust the steering wheel:

1. Pull the lever (A) down.
2. Move the steering wheel up or down.
3. Pull or push the steering wheel closer or away from you.
4. Push the lever (A) up to lock the steering wheel in place.

Do not adjust the steering wheel while driving.

Interior Lighting

Dome Lamps



The dome lamp controls are located in the overhead console.

: Press to turn the lamps off, even when a door is open.

: Press to turn the lamps on automatically when a door is opened.

: Press to turn on the dome lamps.

Reading Lamps

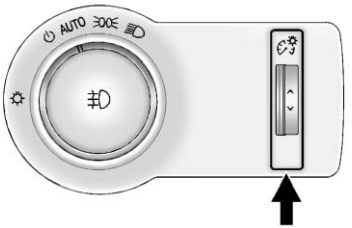


The reading lamps are located in the overhead console.

/ : Press the button near each lamp to turn it on or off.

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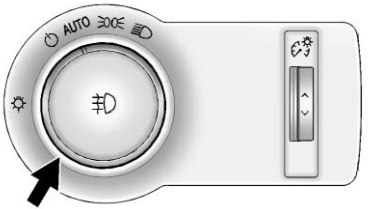
Instrument Panel Illumination Control



This feature controls the brightness of the instrument panel controls and infotainment display screen. The thumbwheel is located to the left of the steering column on the instrument panel.

(Instrument Panel Brightness): Turn the thumbwheel up or down and hold, to brighten or dim the instrument panel controls and infotainment display screen.

Exterior Lighting



The exterior lamps control is located on the instrument panel to the outboard side of the steering column.

: Briefly turn to this position to turn the automatic light control off or on again.

AUTO: Turns the headlamps on automatically at normal brightness, together with the parking lamps, taillamps, license plate lamps, side marker lamps, and instrument panel lights.

: Turns on the parking lamps, taillamps, license plate lamps, side marker lamps, and instrument panel lights.

: Turns on the headlamps, parking lamps, taillamps, license plate lamps, side marker lamps, and instrument panel lights. A warning chime sounds if the driver door is opened when the ignition switch is off and the headlamps are on.

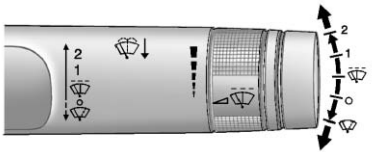
: For vehicles with fog lamps, press to turn the lamps on or off.

For more information, see:

- *Exterior Lamp Controls on page 6-1*.
- *Daytime Running Lamps (DRL) on page 6-2*.
- *Front Fog Lamps on page 6-4*.

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Windshield Wiper/Washer



With the ignition in ACC/ ACCESSORY or ON/RUN, move the windshield wiper lever to select the wiper speed.

2: Fast wipes.

1: Slow wipes.



: Turn the band up for more frequent wipes or down for less frequent wipes.

◯: Turns the windshield wipers off.

: Single wipe, briefly move the wiper lever down. Several wipes, hold the wiper lever down.

Windshield Washer

Pull the windshield wiper lever toward you to spray windshield washer fluid and activate the wipers.

The wipers will continue until the lever is released or the maximum wash time is reached.

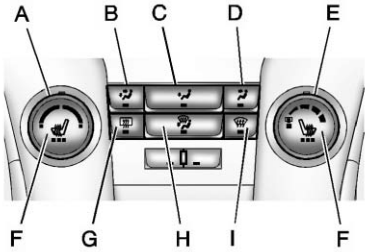
See *Windshield Wiper/Washer on page 5-3*.

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Climate Controls

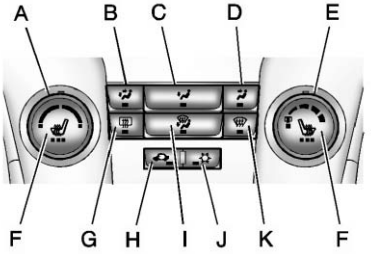
The heating, cooling, defrosting, and ventilation for the vehicle can be controlled with these systems.

Vehicles Without Air Conditioning



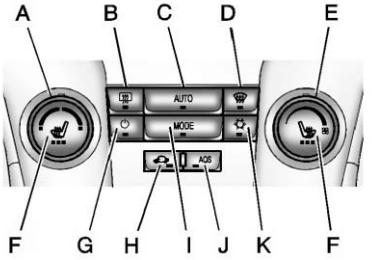
A. Temperature Control
B. Bi-level Air Mode
C. Floor Air Mode
D. Vent Air Mode
E. Fan Control
F. Driver and Passenger Heated Seats (If Equipped)
G. Rear Window Defogger
H. Defog
I. Defrost

Vehicles With Air Conditioning



A. Temperature Control
B. Bi-level Air Mode
C. Floor Air Mode
D. Vent Air Mode
E. Fan Control
F. Driver and Passenger Heated Seats (If Equipped)
G. Rear Window Defogger
H. Recirculation
I. Defog
J. Air Conditioning
K. Defrost

Automatic Climate Control System



A. Temperature Control
B. Rear Window Defogger
C. AUTO
D. Defrost
E. Fan Control

Information Provided by:
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F. Driver and Passenger Heated Seats (If Equipped)

G. Power

H. Recirculation

I. MODE (Air Delivery Mode)

J. AQS (Air Quality Sensor)

K. Air Conditioning

See *Climate Control Systems on page 8-1* (If Equipped).

Transmission

Driver Shift Control (DSC)

Driver Shift Control (DSC) allows you to shift an automatic transmission similar to a manual transmission. To use the DSC feature:

1. Move the shift lever from D (Drive) to the left into the (+) or (−) manual position.
2. Press the shift lever forward (+) to upshift or rearward (−) to downshift. An M and the current gear will be displayed in the Driver Information Center (DIC).

See *Manual Mode on page 9-28*.

Up-Shift Light



If the vehicle has a manual transmission, it will have an up-shift light that indicates when to shift to the next higher gear for the best fuel economy.

See *Manual Transmission on page 9-29*.

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Vehicle Features

Radio(s)

⏻ : Press to turn the system on and off. Turn to increase or decrease the volume.

BAND: Press to choose between FM, AM, or XM™, if equipped.

MENU or MENU/SEL: Turn to select radio stations. Press to select a menu.

⏮ : Press to seek the previous station or track.

⏭ : Press to seek the next station or track.

Buttons 1 to 6: Press to save and select favorite stations.

INFO: Press to show available information about the current station or track.

For more information about these and other radio features, see *Operation on page 7-6*.

Storing a Favorite Station

Stations from all bands can be stored in the favorite lists in any order. Up to six stations can be stored in each favorite page and the number of available favorite pages can be set.

To store the station to a position in the list, press the corresponding numeric button 1 to 6 until a beep is heard.

For more information, see “Storing a Station as a Favorite” in *AM-FM Radio on page 7-11*.

Setting the Clock

Adjusting the Time

1. Press the CONFIG button and select Time Settings.
2. Select Set Time.
3. Turn the MENU or MENU/SEL knob to adjust the highlighted number.
4. Press the MENU or MENU/SEL knob to select the next number.
5. To save the time and return to the Time Settings menu, press the BACK button at any time or press the MENU or MENU/SEL knob after adjusting the minutes.

Setting the 12/24 Hour Format

1. Press the CONFIG button and select Time Settings.
2. Highlight 12/24 Hour Format.
3. Press the MENU or MENU/SEL knob to select the 12 hour or 24 hour display format.

For detailed instructions on setting the clock, see *Clock on page 5-5*.

Information Provided by: DEALER E-PROCESS

Satellite Radio

Vehicles with an XM™ Satellite Radio tuner and a valid XM Satellite Radio subscription can receive XM programming.

XM Satellite Radio Service

XM is a satellite radio service based in the 48 contiguous United States and 10 Canadian provinces. XM Satellite Radio has a wide variety of programming and commercial-free music, coast to coast, and in digital-quality sound. A fee is required to receive the XM service.

For more information refer to:

- www.xmradio.com or call 1-800-929-2100 (U.S.).
- www.xmradio.ca or call 1-877-438-9677 (Canada).

For more information, see *Satellite Radio on page 7-13*.

Portable Audio Devices

This vehicle may have a 3.5 mm (1/8 in) auxiliary input and a USB port located in the center console. External devices such as iPods®, laptop computers, MP3 players, CD changers, and USB storage devices may be connected, depending on the audio system.

For more information, see *Auxiliary Devices on page 7-20*.

Bluetooth®

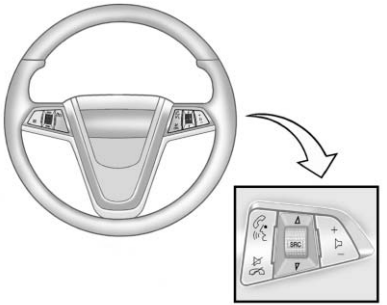
The Bluetooth® system allows users with a Bluetooth-enabled cell phone to make and receive hands-free calls using the vehicle audio system, microphone, and controls.

The Bluetooth-enabled cell phone must be paired with the in-vehicle Bluetooth system before it can be used in the vehicle. Not all phones will support all functions.

See *Bluetooth (Overview) on page 7-23* or *Bluetooth (Infotainment Controls) on page 7-24* or *Bluetooth (Voice Recognition) on page 7-28*.

Information Provided by:
DEALER E-PROCESS

Steering Wheel Controls



For vehicles with audio steering wheel controls, some audio controls can be adjusted at the steering wheel.

: Press to interact with the available Bluetooth, OnStar, or navigation system.

: Press to silence the vehicle speakers only. Press again to turn the sound on. For vehicles with OnStar or Bluetooth systems, press to reject an incoming call, or to end a current call.

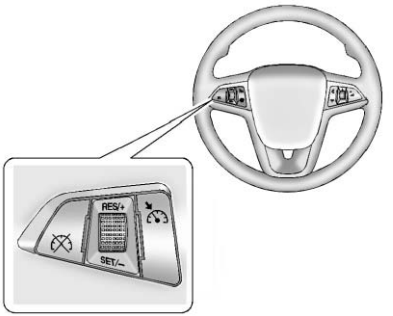
SRC : Press or to select a radio band or audio source.

Press or to select the next or previous favorite radio station, CD, DVD track/chapter, or MP3 track.

+ −: Press + to increase or − to decrease the volume.

For more information, see *Steering Wheel Controls on page 5-2*.

Cruise Control



: Press to turn the cruise control system on and off.

RES/+ : Move the thumbwheel up to resume a previously set speed or to accelerate.

SET/− : Move the thumbwheel down to set a speed or to make the vehicle decelerate.

: Press to disengage cruise control without erasing the set speed from memory.

Information Provided by: DEALER E-PROCESS

See *Cruise Control on page 9-36*.

Navigation System

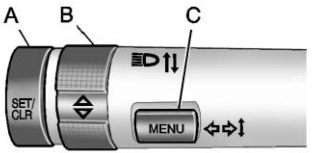
If the vehicle has a navigation system, there is a separate navigation system manual that includes information on the radio, audio players, and navigation system.

The navigation system provides detailed maps of most major freeways and roads. After a destination has been set, the system provides turn-by-turn instructions for reaching the destination. In addition, the system can help locate a variety of points of interest (POI), such as banks, airports, restaurants, and more.

See the Navigation System manual for more information.

Driver Information Center (DIC)

The DIC display is located in the center of the instrument panel cluster. It shows the status of many vehicle systems. The controls for the DIC are located on the turn signal lever.



A. **SET/CLR:** Press to set or clear the menu item when it is displayed.

B. △ ▽**:** Use the thumbwheel to scroll through the items in each menu.

C. **MENU:** Press to get to the Trip/Fuel Menu and the Vehicle Information Menu. This button is also used to return to or exit the last screen displayed on the DIC.

For more information, see *Driver Information Center (DIC) on page 5-24*.

Power Outlets

The accessory power outlets can be used to plug in electrical equipment, such as a cell phone or MP3 player.

There is one accessory power outlet located on the center floor console and one on the rear of the center floor console. These outlets are powered when the key is in ON/RUN or ACC/ACCESSORY, or until the driver door is opened within 10 minutes of turning off the vehicle. See *Retained Accessory Power (RAP) on page 9-21*.

See *Power Outlets on page 5-5*.

Information Provided by:
DEALER E-PROCESS

Performance and Maintenance

Traction Control System (TCS)

The traction control system limits wheel spin. The system is on when the vehicle is started.

- To turn off traction control, press and release OFF located on the console. TC illuminates and the appropriate DIC message displays. See *Vehicle Messages (Canada Base Level) on page 5-27* or *Vehicle Messages (Canada Uplevel and United States) on page 5-28*.
- Press and release OFF again to turn traction control back on.

For more information, see *Traction Control System (TCS) on page 9-33*.

StabiliTrak® System

The StabiliTrak system assists with directional control of the vehicle in difficult driving conditions. The system is on when the vehicle is started.

- To turn off both Traction Control and StabiliTrak, press and hold OFF until OFF and TC illuminate and the appropriate DIC message displays. See *Vehicle Messages (Canada Base Level) on page 5-27* or *Vehicle Messages (Canada Uplevel and United States) on page 5-28*.
- Press OFF again to turn on both systems.

For more information, see *StabiliTrak® System on page 9-34*.

Tire Pressure Monitor

This vehicle may have a Tire Pressure Monitor System (TPMS).



The TPMS warning light alerts you to a significant loss in pressure of one of the vehicle's tires. If the warning light comes on, stop as soon as possible and inflate the tires to the recommended pressure shown on the Tire and Loading Information label. See *Vehicle Load Limits on page 9-12*. The warning light will remain on until the tire pressure is corrected.

Information Provided by: DEALER E-PROCESS

During cooler conditions, the low tire pressure warning light may appear when the vehicle is first started and then turn off. This may be an early indicator that the tire pressures are getting low and the tires need to be inflated to the proper pressure.

The TPMS does not replace normal monthly tire maintenance. It is the driver's responsibility to maintain correct tire pressures.

See *Tire Pressure Monitor System on page 10-52*.

Tire Sealant and Compressor Kit

This vehicle may come with a jack and spare tire or a tire sealant and compressor kit. The kit can be used to temporarily seal small punctures in the tread area of the tire.

See *Tire Sealant and Compressor Kit on page 10-68* for complete operating information.

If the vehicle came with a jack and spare tire, see *If a Tire Goes Flat on page 10-65*.

Engine Oil Life System

The engine oil life system calculates engine oil life based on vehicle use and displays the CHANGE ENGINE OIL SOON DIC message or Code 82 DIC message when it is necessary to change the engine oil and filter.

Remember, the Oil Life display must be reset after each oil change. It will not reset itself. Also, be careful not to reset the Oil Life display accidentally at any time other than when the oil has just been changed. It cannot be reset accurately until the next oil change. To reset the engine oil life system press the SET button while the Oil Life display is active.

Resetting the Oil Life System

1. Using the DIC MENU button and thumbwheel, scroll until you reach REMAINING OIL LIFE on the DIC (oil can symbol with % sign for Canada).
2. Press the SET button to reset the oil life at 100%. When prompted, use the thumbwheel to highlight YES or NO. Press the SET/CLEAR button to confirm.

Be careful not to reset the oil life display accidentally at any time other than after the oil is changed. It cannot be reset accurately.

See *Engine Oil Life System on page 10-12*.

Information Provided by: DEALER E-PROCESS

Driving for Better Fuel Economy

Driving habits can affect fuel mileage. Here are some driving tips to get the best fuel economy possible.

- Avoid fast starts and accelerate smoothly.
- Brake gradually and avoid abrupt stops.
- Avoid idling the engine for long periods of time.
- When road and weather conditions are appropriate, use cruise control.
- Always follow posted speed limits or drive more slowly when conditions require.
- Keep vehicle tires properly inflated.
- Combine several trips into a single trip.
- Replace the vehicle's tires with the same TPC Spec number molded into the tire's sidewall near the size.
- Follow recommended scheduled maintenance.

Roadside Assistance Program

U.S.: **1-800-243-8872**

TTY Users: **1-888-889-2438**

Canada: **1-800-268-6800**

As the owner of a new Chevrolet, you are automatically enrolled in the Roadside Assistance program. This program provides technically trained advisors who are available 24 hours a day, 365 days a year, to give minor repair information or make towing arrangements.

For more information see *Roadside Assistance Program on page 13-6*.

Roadside Assistance and OnStar

If you have a current OnStar subscription, press the button and the current GPS location will be sent to an OnStar advisor who will assess your problem, contact Roadside Assistance, and relay your exact location to get the help you need.

Online Owner Center

The Online Owner Center is a complimentary service that includes online service reminders, vehicle maintenance tips, online owner manual, special privileges, and more.

Sign up today at: **www.chevyownercenter.com** (U.S.) or **www.gm.ca** (Canada).

Information Provided by: DEALER E-PROCESS

OnStar®



For vehicles with an active OnStar subscription, OnStar uses several innovative technologies and live Advisors to provide a wide range of safety, security, navigation, diagnostics, and calling services.

Automatic Crash Response

In a crash, built-in sensors can automatically alert an OnStar Advisor who is immediately connected to the vehicle to see if you need help.

How OnStar Service Works

: Push this blue button to connect to a specially trained OnStar Advisor to verify your account information and to answer questions.

: Push this red emergency button to get priority help from specially trained OnStar Emergency Advisors.

: Push this button for hands-free, voice-activated calling and to give voice commands for Hands-Free Calling and Turn-by-Turn Navigation.

Automatic Crash Response, Emergency Services, Crisis Assist, Stolen Vehicle Assistance, Vehicle Diagnostics, Remote Door Unlock, Roadside Assistance, Turn-by-Turn Navigation, and Hands-Free Calling are available on most vehicles. Not all OnStar services are available on all vehicles. For more information, see the OnStar Owner's Guide; visit www.onstar.com (U.S.) or www.onstar.ca (Canada); contact OnStar at 1-888-4-ONSTAR (1-888-466-7827) or TTY 1-877-248-2080; or push the button to speak with an OnStar Advisor 24 hours a day, 7 days a week.

For a full description of OnStar services and system limitations, see the OnStar Owner's Guide in the glove box.

OnStar service is subject to the OnStar Terms and Conditions included in the OnStar Glove Box Kit.

OnStar service requires wireless communication networks and the Global Positioning System (GPS) satellite network. Not all OnStar services are available everywhere or on all vehicles at all times.

OnStar service can’t work unless the vehicle is in a place where OnStar has an agreement with a wireless service provider for service in that area, and the wireless service provider has coverage, network capacity, reception, and technology compatible with OnStar's service. Service involving location information about the vehicle can’t work unless GPS signals are available, unobstructed, and compatible with the OnStar

Information Provided by: DEALER E-PROCESS

hardware. The vehicle has to have a working electrical system and adequate battery power for the OnStar equipment to operate. OnStar service may not work if the OnStar equipment isn't properly installed or you haven't maintained it and the vehicle is in good working order and in compliance with all government regulations. If you try to add, connect, or modify any equipment or software in the vehicle, OnStar service may not work. Other problems OnStar can't control may prevent service to you, such as hills, tall buildings, tunnels, weather, electrical system design and architecture of the vehicle, damage to important parts of the vehicle in a crash, or wireless phone network congestion or jamming.

See *Radio Frequency Statement on page 13-16* for information regarding Part 15 of the Federal Communications Commission (FCC) rules and Industry Canada Standards RSS-210/220/310.

OnStar Steering Wheel Controls

This vehicle may have a / Talk/Mute button that can be used to interact with OnStar Hands-Free calling. See *Steering Wheel Controls on page 5-2* for more information.

On some vehicles, the to dial phone extensions. See the OnStar Owner's Guide for more information.

Your Responsibility

Increase the volume of the radio if the OnStar Advisor cannot be heard.

If the light next to the OnStar buttons is red, the system may not be functioning properly. Push the button and request a vehicle diagnostic. If the light appears clear (no light appears), your OnStar subscription has expired and all services have been deactivated. Push the button to confirm that the OnStar equipment is active.

Information Provided by: DEALER E-PROCESS

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Information Provided by: DEALER E-PROCESS

Keys and Locks

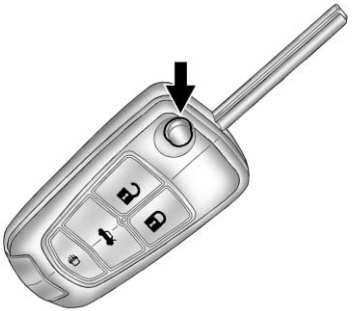
Keys

⚠ WARNING

Leaving children in a vehicle with the ignition key is dangerous for many reasons. Children or others could be badly injured or even killed. They could operate the power windows or other controls or even make the vehicle move. The windows will function with the keys in the ignition and children could be seriously injured or killed if caught in the path of a closing window. Do not leave the keys in a vehicle with children.



The key that is part of the Remote Keyless Entry (RKE) transmitter can be used for the ignition and all locks.



Press the key release button on the RKE transmitter to extend the key blade. Press the button and the key blade to retract the key.

See your dealer if a new key is needed.

Notice: **If the keys get locked in the vehicle, it may have to be damaged to get them out. Always carry a spare key.**

If you are locked out of the vehicle, see *Roadside Assistance Program on page 13-6*.

Information Provided by: DEALER E-PROCESS

Remote Keyless Entry (RKE) System

See *Radio Frequency Statement on page 13-16* for information regarding Part 15 of the Federal Communications Commission (FCC) rules and Industry Canada Standards RSS-210/220/310.

If there is a decrease in the RKE operating range:

- Check the distance. The transmitter may be too far from the vehicle.
- Check the location. Other vehicles or objects may be blocking the signal.
- Check the transmitter's battery. See “Battery Replacement” later in this section.
- If the transmitter is still not working correctly, see your dealer or a qualified technician for service.

Remote Keyless Entry (RKE) System Operation

The Remote Keyless Entry (RKE) transmitter will work up to 20 m (65 ft) away from the vehicle.

Other conditions can affect the performance of the transmitter. See *Remote Keyless Entry (RKE) System on page 2-3*.



RKE Transmitter With Remote Start Shown

The following may be available:

(Lock): Press to lock all doors.

The turn signal indicators may flash and/or the horn may sound to indicate locking. See “Locking Feedback” under *Vehicle Personalization on page 5-34*.

If the driver door is open when is pressed and Unlocked Door Anti Lock Out is enabled through vehicle personalization, all doors will lock and then the driver door will unlock. See “Unlocked Door Anti Lock Out” under *Vehicle Personalization on page 5-34*.

Pressing may also arm the theft-deterrent system. See *Vehicle Alarm System on page 2-9*.

Information Provided by: DEALER E-PROCESS

(Unlock): Press to unlock the driver door or all doors. See “Door Unlock Options” under *Vehicle Personalization on page 5-34*.

The turn signal indicators may flash and/or the horn may sound to indicate unlocking. See “Unlock Feedback” under *Vehicle Personalization on page 5-34*.

Pressing will disarm the theft-deterrent system. See *Vehicle Alarm System on page 2-9*.

(Remote Trunk Release): Press and hold briefly to open the trunk.

(Vehicle Locator/Panic Alarm): Press and hold briefly to locate the vehicle. The exterior lamps flash and the horn chirps.

Press and hold for at least two seconds to sound the panic alarm. The horn sounds and the turn signals flash for 30 seconds, or until is pressed again or the key is placed in the ignition and turned to ON/RUN.

(Remote Vehicle Start): For vehicles with this feature, press and then press and hold to start the engine from outside the vehicle using the RKE transmitter. See *Remote Vehicle Start on page 2-5* for additional information.

Programming Transmitters to the Vehicle

Only RKE transmitters programmed to this vehicle will work. If a transmitter is lost or stolen, a replacement can be purchased and programmed through your dealer. When the replacement transmitter is programmed to this vehicle, all remaining transmitters must also be reprogrammed. Any lost or stolen transmitters will no longer work once the new transmitter is programmed.

Battery Replacement

The battery is not rechargeable. To replace the battery:

1. Extend the key blade and open the battery cover on the back of the transmitter by prying with finger.
2. Remove the used battery by pushing on battery and sliding toward the key blade.
3. Insert the new battery, positive side facing up. Push the battery down to until it is held in place. Replace with a CR2032 or equivalent battery.
4. Snap the battery cover back on to the transmitter.

Information Provided by: DEALER E-PROCESS

Remote Vehicle Start

The vehicle may have this feature that allows you to start the engine from outside the vehicle.

(Remote Vehicle Start): This button will be on the RKE transmitter if the vehicle has remote start.

Vehicles with an automatic climate control system will default to a heating or cooling mode depending on the outside temperature during a remote start. A vehicle without automatic climate control will default to the last used heating or cooling mode. Once the key is turned to ON/RUN, the climate control system will turn on at the setting the vehicle was last set to. If the vehicle has heated seats, they may come on during a remote start. See *Heated Front Seats on page 3-7* for more information.

Laws in some local communities may restrict the use of remote starters. For example, some laws require a person using remote start to have the vehicle in view. Check local regulations for any requirements.

There are other conditions which can affect the performance of the transmitter. See *Remote Keyless Entry (RKE) System on page 2-3* for additional information.

Starting the Engine Using Remote Start

To start the engine using the remote start feature:

1. Press on the RKE transmitter.
2. Press and hold for about two seconds. The turn signal lamps will briefly flash to confirm the command was received. When the engine starts, the parking lamps will turn on and remain on as long as the engine is running. The vehicle's doors will be locked. The engine will shut off after 10 minutes unless a time extension is done or the key is inserted and turned to ON/RUN.
3. The key must be inserted and turned to ON/RUN before driving.

Extending Engine Run Time

For a 10-minute extension, repeat Steps 1 and 2 while the engine is still running. The remote start can be extended once.

When the remote start is extended, the second 10 minutes will start immediately.

For example, if the engine has been running for 5 minutes, and 10 minutes are added, the engine will run for a total of 15 minutes.

A maximum of two remote starts, or a single start with an extension, are allowed between ignition cycles.

Information Provided by: DEALER E-PROCESS

After which, the vehicle's ignition switch must be turned to ON/RUN and then back to LOCK/OFF using the key, before the remote start procedure can be used again.

Shutting the Engine Off After a Remote Start

To shut off the engine, do one of the following:

- Press ❍ until the parking lamps turn off.
- Turn on the hazard warning flashers.
- Insert the key and turn it to ON/RUN and then back to LOCK/OFF.

Conditions in Which Remote Start Will Not Work

The remote vehicle start feature will not operate if:

- The key is in the ignition.
- The hood is not closed.
- The hazard warning flashers are on.
- The malfunction indicator lamp is on.
- The engine coolant temperature is too high.
- The oil pressure is low.
- Two remote vehicle starts, or a single remote start with an extension, have already been used.
- The vehicle is not in P (Park).

Door Locks

⚠ WARNING

Unlocked doors can be dangerous.

- Passengers, especially children, can easily open the doors and fall out of a moving vehicle. The chance of being thrown out of the vehicle in a crash is increased if the doors are not locked. So, all passengers should wear safety belts properly and the doors should be locked whenever the vehicle is driven.
- Young children who get into unlocked vehicles may be unable to get out. A child can be overcome by extreme heat and can suffer permanent injuries or even death from heat stroke. Always lock the vehicle whenever leaving it.

(Continued)

Information Provided by: DEALER E-PROCESS

WARNING (Continued)

- Outsiders can easily enter through an unlocked door when slowing or stopping the vehicle. Lock the doors to help prevent this from happening.

To lock or unlock a door from outside the vehicle, use the Remote Keyless Entry (RKE) transmitter. From inside the vehicle, use the power door lock switch.

The doors can also be unlocked from the inside by pulling the door handle. Pulling the door handle again unlatches the door.

Power Door Locks



The power door lock switches are located on the instrument panel.

(Lock): Press to lock the doors.

(Unlock): Press to unlock the doors.

Automatic Door Locks

Automatic Door Lock

The doors are programmed to automatically lock when the shift lever is moved out of (P) Park.

The automatic door lock feature cannot be disabled.

Automatic Door Unlock

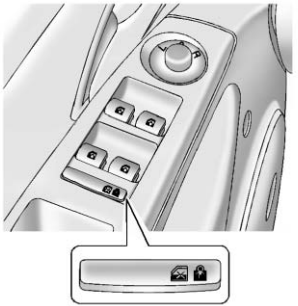
The doors will automatically unlock when the shift lever is moved into (P) Park.

See *Vehicle Personalization on page 5-34*.

Safety Locks

Safety locks will lock the rear windows and not allow the rear doors to be opened from the inside.

Information Provided by: DEALER E-PROCESS



Press to activate the safety locks on the rear doors. The LED will illuminate.

The rear door power windows are also disabled.

Press again to deactivate the safety locks on the rear doors. The LED will turn off.

If the LED flashes, the feature may not be working properly.

Doors

Trunk

⚠ WARNING

Exhaust gases can enter the vehicle if it is driven with the liftgate, trunk/hatch open, or with any objects that pass through the seal between the body and the trunk/hatch or liftgate. Engine exhaust contains Carbon Monoxide (CO) which cannot be seen or smelled. It can cause unconsciousness and even death.

If the vehicle must be driven with the liftgate, or trunk/hatch open:

- Close all of the windows.
- Fully open the air outlets on or under the instrument panel.

(Continued)

WARNING (Continued)

- Adjust the Climate Control system to a setting that brings in only outside air and set the fan speed to the highest setting. See Climate Control System in the Index.
- If the vehicle has a power liftgate, disable the power liftgate function.

For more information about carbon monoxide, see *Engine Exhaust on page 9-24*.

Information Provided by: DEALER E-PROCESS

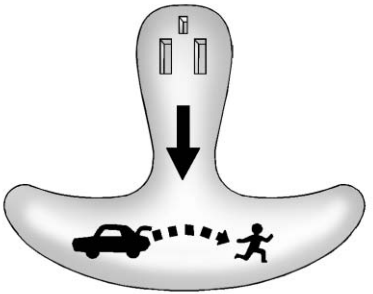
Remote Trunk Release



To open the trunk from outside the vehicle, press the button on the Remote Keyless Entry (RKE) transmitter, or by pressing the touchpad above the license plate when the doors are unlocked.

Emergency Trunk Release Handle

Notice: **Do not use the emergency trunk release handle as a tie-down or anchor point when securing items in the trunk as it could damage the handle. The emergency trunk release handle is only intended to aid a person trapped in a latched trunk, enabling them to open the trunk from the inside.**



There is an emergency trunk release handle located inside the trunk. The release handle can be accessed by folding the rear seatback. See *Rear Seats on page 3-8*. Pull the release handle to open the trunk from the inside.

Vehicle Security

This vehicle has theft-deterrent features; however, they do not make it impossible to steal.

Vehicle Alarm System

This vehicle has a theft alarm system.

Arming the System

To arm the system, use the power door lock switch or the RKE transmitter to lock the vehicle while exiting with the vehicle turned off.

The alarm arms after about 30 seconds after all the doors have been closed.

Press again and the system arms immediately.

The security light, located in the center of the instrument panel, will flash slowly.

Information Provided by: DEALER E-PROCESS

Disarming the System

To disarm the system press on the RKE transmitter.

Turning off the System Alarm

If there is an attempt to open the doors, trunk, or hood without first pressing on the transmitter, the system alarm will be activated. The exterior lamps will flash and the horn will sound for about 30 seconds.

To turn off the system alarm press on the RKE transmitter.

Immobilizer

See *Radio Frequency Statement on page 13-16* for information regarding Part 15 of the Federal Communications Commission (FCC) rules and Industry Canada Standards RSS-210/220/310.

Immobilizer Operation

This vehicle has a passive theft-deterrent system.

The system does not have to be manually armed or disarmed.

The vehicle is automatically immobilized when the key is removed from the ignition.

The system is automatically disarmed when the vehicle is started with the correct key. The key uses a transponder that matches an immobilizer control unit in the vehicle and automatically disarms the system. Only an authorized key starts the vehicle. The vehicle may not start if the key is damaged.



The security light, located in the instrument panel cluster, comes on if there is a problem with arming or disarming the theft-deterrent system.

When trying to start the vehicle, the security light comes on briefly when the ignition is turned on.

If the engine does not start and the security light stays on, there is a problem with the system. Turn the ignition off and try again.

Information Provided by: DEALER E-PROCESS

If the engine still does not start, and the key appears to be undamaged or the light continues to stay on, try another ignition key. If the engine does not start with the other key, the vehicle needs service. If the vehicle does start, the first key may be damaged. See your dealer who can service the theft-deterrent system and have a new key made.

Do not leave the key or device that disarms or deactivates the theft-deterrent system in the vehicle.

Exterior Mirrors

Convex Mirrors

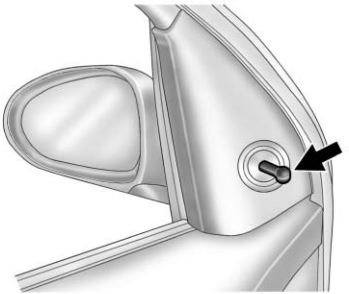
⚠ WARNING

A convex mirror can make things, like other vehicles, look farther away than they really are. If you cut too sharply into the right lane, you could hit a vehicle on the right. Check the inside mirror or glance over your shoulder before changing lanes.

The passenger side mirror is convex shaped. A convex mirror's surface is curved so more can be seen from the driver seat.

Manual Mirrors

Some vehicles have outside mirrors that can be manually adjusted.



Controls for the outside manual mirrors are located next to each mirror.

Information Provided by:
DEALER E-PROCESS

Power Mirrors



Controls for the outside power mirrors are located on the driver door.

To adjust the mirror:

1. Turn the selector switch to L (left) or R (right) to choose the driver or passenger mirror.
2. Move the control to adjust the mirror.
3. Turn the selector switch to the O position to deselect the mirror.

Folding Mirrors

Manual Foldaway Mirrors

The vehicle has manual folding mirrors. These mirrors can be folded inward to prevent damage when going through an automatic car wash. To fold, pull the mirror toward the vehicle. Push the mirror outward to return it to the original position.

Heated Mirrors

The vehicle may have heated mirrors.

(Rear Window Defogger): Press to heat the outside rearview mirrors. See “Rear Window Defogger” under *Automatic Climate Control System on page 8-3* for more information.

Interior Mirrors

Manual Rearview Mirror

Hold the mirror in the center to move it for a clearer view of behind your vehicle. Adjust the mirror to avoid glare from the headlamps behind you. Push the tab at the bottom of the mirror forward for daytime use and pull it for nighttime use.

Information Provided by: DEALER E-PROCESS

Automatic Dimming Rearview Mirror

The vehicle may have an automatic dimming inside rearview mirror. Automatic dimming reduces the glare from the headlamps of the vehicle behind you. The dimming feature and the indicator light come on each time the vehicle is started.

Vehicles with OnStar® have three additional control buttons located at the bottom of the mirror. See your dealer for more information about OnStar and how to subscribe to it. See the OnStar Owner's Guide for more information about the services OnStar provides.

Cleaning the Mirror

Do not spray glass cleaner directly on the mirror. Use a soft towel dampened with water.

Windows

⚠ WARNING

Leaving children, helpless adults, or pets in a vehicle with the windows closed is dangerous. They can be overcome by the extreme heat and suffer permanent injuries or even death from heat stroke. Never leave a child, a helpless adult, or a pet alone in a vehicle, especially with the windows closed in warm or hot weather.



The vehicle aerodynamics are designed to improve fuel economy performance. This may result in a pulsing sound when either rear window is down and the front windows are up. To reduce the sound, open either a front window or the sunroof (if equipped).

Information Provided by: DEALER E-PROCESS

Power Windows

⚠ WARNING

Leaving children in a vehicle with the keys is dangerous for many reasons. Children or others could be badly injured or even killed. They could operate the power windows or other controls or even make the vehicle move. The windows will function and they could be seriously injured or killed if caught in the path of a closing window. Do not leave keys in a vehicle with children.

When there are children in the rear seat use the window lockout button to prevent unintentional operation of the windows.



The power window switches on the driver door control all four windows. The passenger doors have a window switch that controls that window. Push the switch down to open the window. Pull the front of the switch up to close it.

The switches work when the ignition is in ON/RUN, ACC/ACCESSORY, or in Retained Accessory Power (RAP). See *Retained Accessory Power (RAP) on page 9-21*.

Express Window Operation

Your vehicle may have windows with an express-up or down feature. This feature allows the window to be lowered or raised without holding the switch. Passenger side and rear windows only have express down. Pull a window switch up or push it down all the way, release it, and the window goes down or up automatically. Stop the window by pushing or pulling the switch.

Information Provided by: DEALER E-PROCESS

Obstacle Detection Feature

If equipped with express-up, and an object is in the path of the window when closing, the window will stop at the obstruction and auto-reverse to a preset factory position. Weather conditions such as severe cold and/or ice may also cause the window to auto-reverse. The window will return to normal operation once the obstruction or condition is removed.

If conditions prevent the window from closing and the window continues to auto-reverse, it is possible to close the window with the ignition in ON/RUN by holding the window switch in the partially or fully pulled up position. Release of the switch from the partially pulled up position will cause the window to stop. Release of the switch from the fully pulled up position will activate the express-up and related obstacle detection features.

Programming the Power Windows

If the battery on the vehicle has been recharged, disconnected, or is not working, you will need to reprogram each front power window for the express-up feature to work. Before reprogramming, replace or recharge the vehicle's battery.

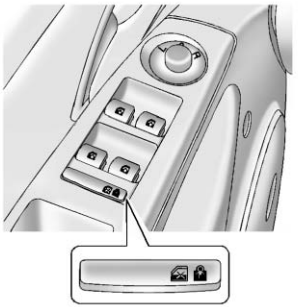
To program each front window, follow these steps:

1. With the ignition in ACC/ACCESSORY or ON/RUN, or when Retained Accessory Power (RAP) is active, close all doors.
2. Press and hold the power window switch until the window is fully open.
3. Pull the power window switch up until the window is fully closed.
4. Continue holding the switch up for approximately two seconds after the window is completely closed.

The window is now reprogrammed. Repeat the process for the other windows.

Information Provided by:
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Window Lockout

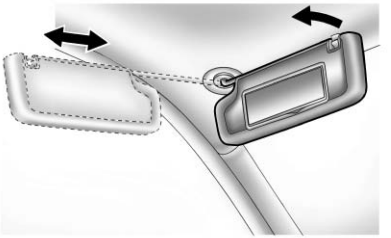


The rear window lockout button is on the driver door. Press the button to disable the rear window controls and turn on the rear door power safety locks. The light on the button comes on indicating the feature is in use. The rear windows can still be raised or lowered using the driver window switches when the lockout feature is active. To restore power to the rear windows, press the button again. The light on the button goes out. If the light flashes, the feature may not be working properly.

Overload Feature

If the windows are operated repeatedly in short intervals, the window operation is disabled for a short time.

Sun Visors

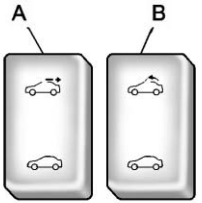


Pull the sun visor down to block glare. Detach the sun visor from the center mount to pivot to the side window, or to extend along the rod if, available.

Information Provided by:
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Roof

Sunroof



On vehicles with a sunroof, the switches are on the overhead console.

The sunroof only operates when the ignition is in ON/RUN or ACC/ ACCESSORY.

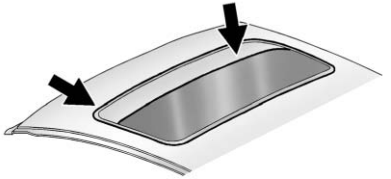
To open or close the sunroof, press the open or close sunroof switch (A) to the first detent position.

To express open or close the sunroof with the safety function enabled, press the open or close sunroof switch (A) to the second detent position and release. To stop the movement, press the switch again.

To automatically tilt or close the sunroof, press the tilt open or close sunroof switch (B).

If an object is in the path of the sunroof while it is closing, the anti-pinch feature will detect the object and stop the sunroof.

The sunroof glass panel cannot be opened or closed if the vehicle has an electrical failure.



Dirt and debris may collect on the sunroof seal or in the track. This could cause an issue with sunroof operation, noise, or plugging the water drainage system. Periodically open the sunroof and remove any obstacles or loose debris. Wipe the sunroof seal and roof sealing area using a clean cloth, mild soap, and water. Do not remove grease from the sunroof.

Information Provided by:
DEALER E-PROCESS

Sunshade

The sunshade is manually operated. Close or open the sunshade by sliding. When the sunroof is opened, the sunshade is always open.

Safety Function

If the sunroof has any resistance during automatic closing, it will immediately stop and reverse.

To override the safety function, press and hold the close sunroof switch. The sunroof closes without safety function. To stop the movement, release the switch.

Initializing the Sunroof

If the sunroof cannot be fully closed, or the express open or close feature does not function, the sunroof may need to be initialized. This can happen if the battery has been disconnected or the sunroof has been serviced.

To initialize the sunroof:

1. Press the close sunroof switch to the first detent position. Hold the switch in this position for 10 seconds after the sunroof has fully closed.
2. Press the open sunroof switch to the first detent position. Release the switch when the sunroof is fully opened.
3. Press the open sunroof switch to the first detent position and hold for 10 seconds. The sunroof will automatically close. The switch can be released when the sunroof stops.

Information Provided by:
DEALER E-PROCESS

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Head Restraints

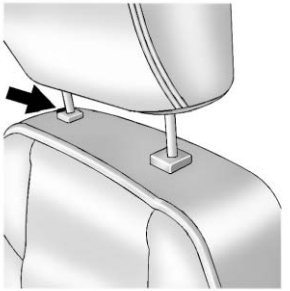
The vehicle's front and rear seats have adjustable head restraints in the outboard seating positions.

⚠ WARNING

With head restraints that are not installed and adjusted properly, there is a greater chance that occupants will suffer a neck/spinal injury in a crash. Do not drive until the head restraints for all occupants are installed and adjusted properly.



Adjust the head restraint so that the top of the restraint is at the same height as the top of the occupant's head. This position reduces the chance of a neck injury in a crash.



The height of the head restraint can be adjusted. Pull the head restraint up to raise it. Try to move the head restraint to make sure that it is locked in place.

To lower the head restraint, press the button, located on the top of the seatback, and push the head restraint down. Try to move the head restraint after the button is released to make sure that it is locked in place.

Information Provided by: DEALER E-PROCESS

The vehicle's rear seat may be equipped with an adjustable headrest in the center seating position that can be adjusted the same way as the head restraints.

The front seat outboard head restraints and the center seat rear headrest, if equipped, are not designed to be removed.

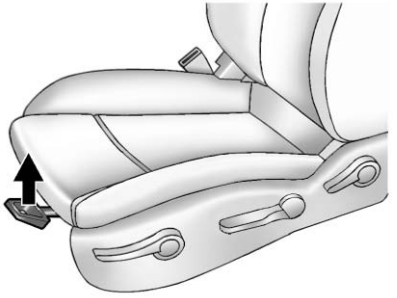
If you are installing a child restraint in the rear seat, see “Securing a Child Restraint Designed for the LATCH System” under *Lower Anchors and Tethers for Children (LATCH System) on page 3-49*.

Front Seats

Seat Adjustment

⚠ WARNING

You can lose control of the vehicle if you try to adjust a manual driver seat while the vehicle is moving. The sudden movement could startle and confuse you, or make you push a pedal when you do not want to. Adjust the driver seat only when the vehicle is not moving.

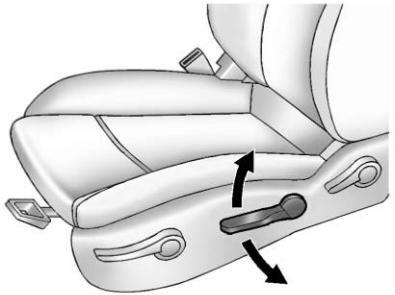


To adjust a manual seat:

1. Pull the handle at the front of the seat.
2. Slide the seat to the desired position and release the handle.
3. Try to move the seat back and forth to be sure it is locked in place.

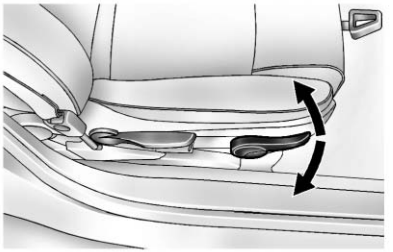
Information Provided by: DEALER E-PROCESS

Seat Height Adjuster



If available, move the lever up or down to manually raise or lower the seat.

Seat Cushion Tilt Feature



If available, move the lever up or down to raise or lower the front of the seat cushion.

Power Seat Adjustment



To adjust the power driver seat, if equipped:

- Move the seat forward or rearward by sliding the control forward or rearward.
- Raise or lower the front part of the seat cushion by moving the front of the control up or down.
- Raise or lower the entire seat by moving the rear of the control up or down.

Information Provided by:
DEALER E-PROCESS

To adjust the seatback, see *Reclining Seatbacks on page 3-5* for more information.

Reclining Seatbacks

⚠ WARNING

You can lose control of the vehicle if you try to adjust a manual driver seat while the vehicle is moving. The sudden movement could startle and confuse you, or make you push a pedal when you do not want to. Adjust the driver seat only when the vehicle is not moving.

⚠ WARNING

If either seatback is not locked, it could move forward in a sudden stop or crash. That could cause injury to the person sitting there. Always push and pull on the seatbacks to be sure they are locked.



To recline the seatback:

1. Lift the lever.

 If necessary, move the safety belt out of the way to access the lever.
2. Move the seatback to the desired position, then release the lever to lock the seatback in place.
3. Push and pull on the seatback to make sure it is locked.

Information Provided by: DEALER E-PROCESS

To return the seatback to an upright position:

1. Lift the lever fully without applying pressure to the seatback, and the seatback returns to the upright position.
2. Push and pull on the seatback to make sure it is locked.

⚠ WARNING

Sitting in a reclined position when the vehicle is in motion can be dangerous. Even when buckled up, the safety belts cannot do their job when reclined like this.

The shoulder belt cannot do its job because it will not be against your body. Instead, it will be in front of you. In a crash, you could go into it, receiving neck or other injuries.

(Continued)

WARNING (Continued)

The lap belt cannot do its job either. In a crash, the belt could go up over your abdomen. The belt forces would be there, not at your pelvic bones. This could cause serious internal injuries.

For proper protection when the vehicle is in motion, have the seatback upright. Then sit well back in the seat and wear the safety belt properly.



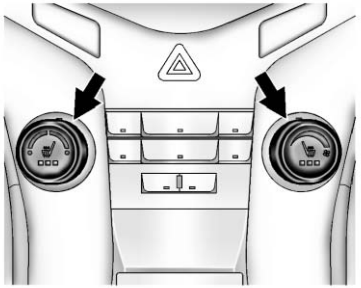
Do not have a seatback reclined if the vehicle is moving.

Information Provided by: DEALER E-PROCESS

Heated Front Seats

⚠ WARNING

If you cannot feel temperature change or pain to the skin, the seat heater may cause burns even at low temperatures. To reduce the risk of burns, people with such a condition should use care when using the seat heater, especially for long periods of time. Do not place anything on the seat that insulates against heat, such as a blanket, cushion, cover or similar item. This may cause the seat heater to overheat. An overheated seat heater may cause a burn or may damage the seat.



On vehicles with heated front seats, the controls are on the center console. The engine must be running to operate the heated seats.

Press or to heat the driver or passenger seat cushion and seatback.

Press the control once for the highest setting. With each press of the control, the heated seat will change to the next lower setting, and then the off setting. Three lights indicate the highest setting and one light the lowest.

The passenger seat may take longer to heat up.

Remote Start Heated Seats

When it is cold outside, the heated seats can be turned on automatically during a remote vehicle start. The heated seats will be canceled when the ignition is turned on. Press the control to use the heated seats after the vehicle is started.

The heated seat indicator lights on the control do not turn on during a remote start.

The temperature performance of an unoccupied seat may be reduced. This is normal.

The heated seats will not turn on during a remote start unless the heated seat feature is enabled in the vehicle personalization menu. See *Remote Vehicle Start on page 2-5* and “Remote Start Auto Heat Seats” under *Vehicle Personalization on page 5-34* for more information.

Information Provided by: DEALER E-PROCESS

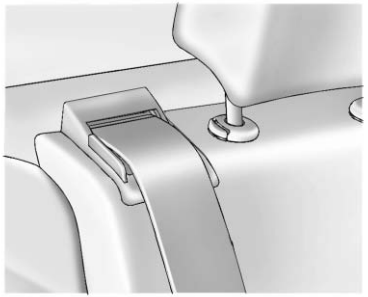
Rear Seats

Either side of the rear seatback can be folded.

To fold the rear seatbacks:

Notice: **Folding a rear seat with the safety belts still fastened may cause damage to the seat or the safety belts. Always unbuckle the safety belts and return them to their normal stowed position before folding a rear seat.**

1. Unbuckle the rear safety belts and put the front seatback in an upright position.



2. Make sure the safety belt is in the guide on top of the seatback. Then, reach under the safety belt and pull the lever to release the seatback.
3. Fold the seatback forward.

To raise the seatback:

⚠ WARNING

A safety belt that is improperly routed, not properly attached, or twisted will not provide the protection needed in a crash. The person wearing the belt could be seriously injured. After raising the rear seatback, always check to be sure that the safety belts are properly routed and attached, and are not twisted.

1. Make sure the safety belt is in the guide on the top of the seatback.
2. Lift the seatback up and push it rearward until it clicks. Keep the safety belts clear of the seatback and untwisted.

 The center rear safety belt may lock when you raise the seatback. If this happens, let the belt go back all the way and start again.

Information Provided by: DEALER E-PROCESS

The seatback is engaged when the red marks near the release lever are not visible.

⚠ WARNING

If the seatback is not locked, it could move forward in a sudden stop or crash. That could cause injury to the person sitting there. Always pull forward on the top of the seatback at the area of the latch to be sure it is locked.

3. Push and pull on the seatback to make sure it is locked in place.

Keep the seat in the upright locked position when not in use.

Safety Belts

This section of the manual describes how to use safety belts properly. It also describes some things not to do with safety belts.

⚠ WARNING

Do not let anyone ride where a safety belt cannot be worn properly. In a crash, if you or your passenger(s) are not wearing safety belts, the injuries can be much worse. You can hit things inside the vehicle harder or be ejected from the vehicle. You and your passenger(s) can be seriously injured or killed. In the same crash, you might not be, if you are buckled up. Always fasten your safety belt, and check that your passenger(s) are restrained properly too.

⚠ WARNING

It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and safety belts. Be sure everyone in your vehicle is in a seat and using a safety belt properly.

This vehicle has indicators as a reminder to buckle the safety belts. See *Safety Belt Reminders on page 5-10* for additional information.

In most states and in all Canadian provinces, the law requires wearing safety belts. Here is why:

You never know if you will be in a crash. If you do have a crash, you do not know if it will be a serious one.

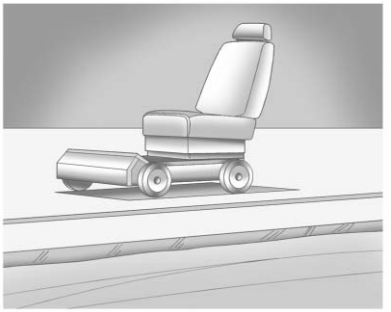
Information Provided by: DEALER E-PROCESS

A few crashes are mild, and some crashes can be so serious that even buckled up, a person would not survive. But most crashes are in between. In many of them, people who buckle up can survive and sometimes walk away. Without safety belts they could have been badly hurt or killed.

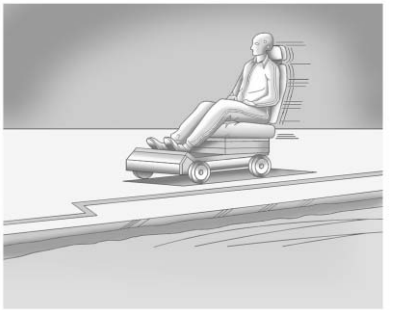
After more than 40 years of safety belts in vehicles, the facts are clear. In most crashes buckling up does matter ... a lot!

Why Safety Belts Work

When you ride in or on anything, you go as fast as it goes.

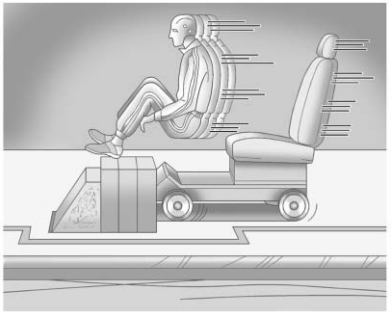


Take the simplest vehicle. Suppose it is just a seat on wheels.

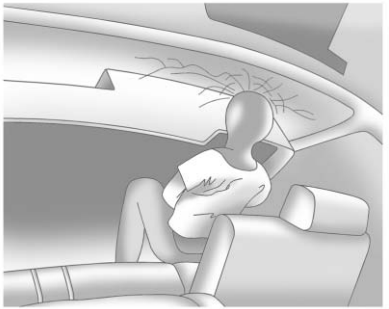


Put someone on it.

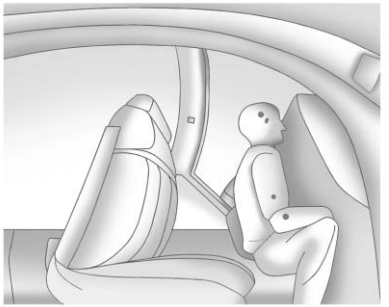
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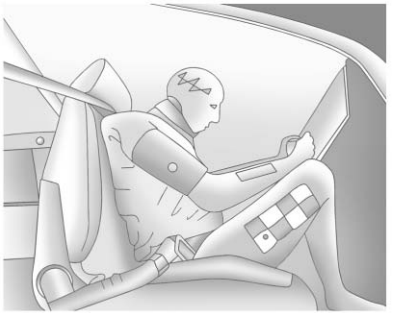
Get it up to speed. Then stop the vehicle. The rider does not stop.



The person keeps going until stopped by something. In a real vehicle, it could be the windshield...



or the instrument panel...



or the safety belts!

Information Provided by:
DEALER E-PROCESS

With safety belts, you slow down as the vehicle does. You get more time to stop. You stop over more distance, and your strongest bones take the forces. That is why safety belts make such good sense.

Questions and Answers About Safety Belts

Q: Will I be trapped in the vehicle after a crash if I am wearing a safety belt?

A: You *could* be — whether you are wearing a safety belt or not. But your chance of being conscious during and after an accident, so you *can* unbuckle and get out, is *much* greater if you are belted. And you can unbuckle a safety belt, even if you are upside down.

Q: If my vehicle has airbags, why should I have to wear safety belts?

A: Airbags are supplemental systems only; so they work *with* safety belts — not instead of them. Whether or not an airbag is provided, all occupants still have to buckle up to get the most protection. That is true not only in frontal collisions, but especially in side and other collisions.

Q: If I am a good driver, and I never drive far from home, why should I wear safety belts?

A: You may be an excellent driver, but if you are in a crash — even one that is not your fault — you and your passenger(s) can be hurt. Being a good driver does not protect you from things beyond your control, such as bad drivers.

Most accidents occur within 40 km (25 miles) of home. And the greatest number of serious injuries and deaths occur at speeds of less than 65 km/h (40 mph).

Safety belts are for everyone.

Information Provided by: DEALER E-PROCESS

How to Wear Safety Belts Properly

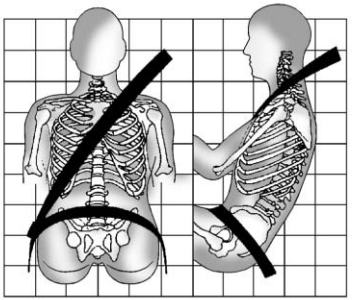
This section is only for people of adult size.

Be aware that there are special things to know about safety belts and children. And there are different rules for smaller children and infants. If a child will be riding in the vehicle, see *Older Children on page 3-40* or *Infants and Young Children on page 3-43*. Follow those rules for everyone's protection.

It is very important for all occupants to buckle up. Statistics show that unbelted people are hurt more often in crashes than those who are wearing safety belts.

Occupants who are not buckled up can be thrown out of the vehicle in a crash. And they can strike others in the vehicle who are wearing safety belts.

First, before you or your passenger(s) wear a safety belt, there is important information you should know.

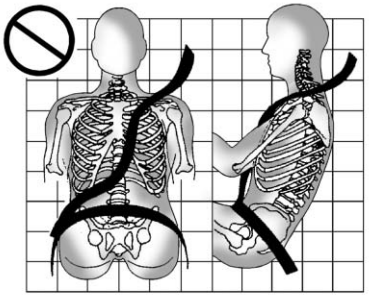


Sit up straight and always keep your feet on the floor in front of you. The lap part of the belt should be worn low and snug on the hips, just touching the thighs. In a crash, this applies force to the strong pelvic bones and you would be less likely to slide under the lap belt. If you slid under it, the belt would apply force on your abdomen. This could cause serious or even fatal injuries. The shoulder belt should go over the shoulder and across the chest. These parts of the body are best able to take belt restraining forces.

The shoulder belt locks if there is a sudden stop or crash.

Information Provided by:
DEALER E-PROCESS

Q: What is wrong with this?

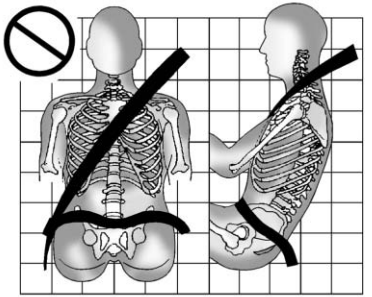


A: The shoulder belt is too loose. It will not give as much protection this way.

⚠ WARNING

You can be seriously hurt if the shoulder belt is too loose. In a crash, you would move forward too much, which could increase injury. The shoulder belt should fit snugly against your body.

Q: What is wrong with this?



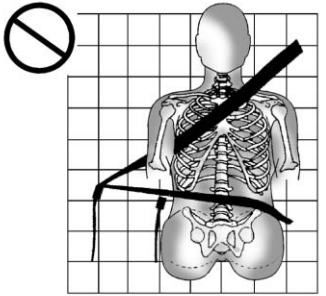
A: The lap belt is too loose. It will not give nearly as much protection this way.

Information Provided by:
DEALER E-PROCESS

⚠ WARNING

You can be seriously hurt if the lap belt is too loose. In a crash, you could slide under the lap belt and apply force on your abdomen. This could cause serious or even fatal injuries. The lap belt should be worn low and snug on the hips, just touching the thighs.

Q: What is wrong with this?



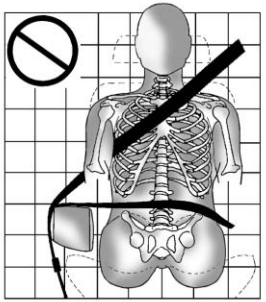
A: The belt is buckled in the wrong buckle.

⚠ WARNING

You can be seriously injured if the belt is buckled in the wrong place like this. In a crash, the belt would go up over your abdomen. The belt forces would be there, not on the pelvic bones. This could cause serious internal injuries. Always buckle the belt into the buckle nearest you.

Information Provided by:
DEALER E-PROCESS

Q: What is wrong with this?

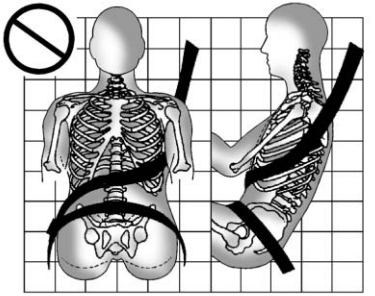


A: The belt is over an armrest.

⚠ WARNING

You can be seriously injured if the belt goes over an armrest like this. The belt would be much too high. In a crash, you can slide under the belt. The belt force would then be applied on the abdomen, not on the pelvic bones, and that could cause serious or fatal injuries. Be sure the belt goes under the armrests.

Q: What is wrong with this?



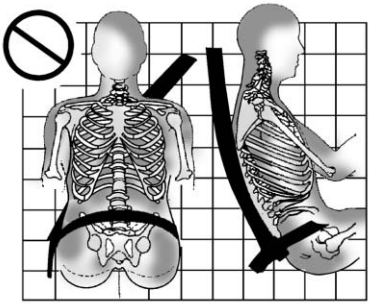
A: The shoulder belt is worn under the arm. It should be worn over the shoulder at all times.

Information Provided by:
DEALER E-PROCESS

⚠ WARNING

You can be seriously injured if you wear the shoulder belt under your arm. In a crash, your body would move too far forward, which would increase the chance of head and neck injury. Also, the belt would apply too much force to the ribs, which are not as strong as shoulder bones. You could also severely injure internal organs like your liver or spleen. The shoulder belt should go over the shoulder and across the chest.

Q: What is wrong with this?



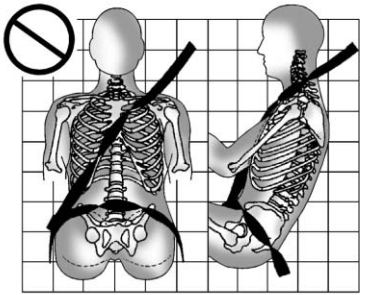
A: The belt is behind the body.

⚠ WARNING

You can be seriously injured by not wearing the lap-shoulder belt properly. In a crash, you would not be restrained by the shoulder belt. Your body could move too far forward increasing the chance of head and neck injury. You might also slide under the lap belt. The belt force would then be applied right on the abdomen. That could cause serious or fatal injuries. The shoulder belt should go over the shoulder and across the chest.

Information Provided by:
DEALER E-PROCESS

Q: What is wrong with this?



A: The belt is twisted across the body.

⚠ WARNING

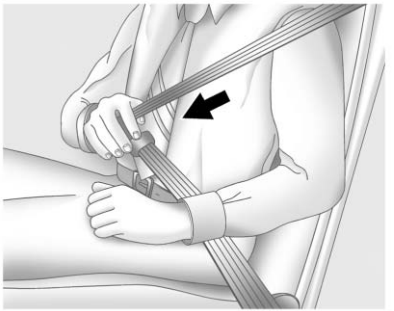
You can be seriously injured by a twisted belt. In a crash, you would not have the full width of the belt to spread impact forces. If a belt is twisted, make it straight so it can work properly, or ask your dealer to fix it.

Lap-Shoulder Belt

All seating positions in the vehicle have a lap-shoulder belt.

The following instructions explain how to wear a lap-shoulder belt properly.

1. Adjust the seat, if the seat is adjustable, so you can sit up straight. To see how, see “Seats” in the Index.

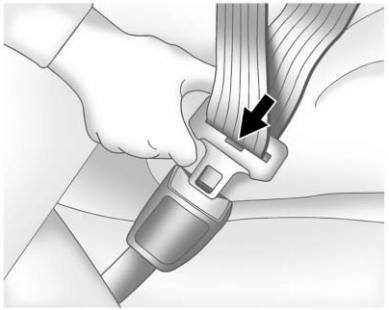


2. Pick up the latch plate and pull the belt across you. Do not let it get twisted.

 The lap-shoulder belt may lock if you pull the belt across you very quickly. If this happens, let the belt go back slightly to unlock it. Then pull the belt across you more slowly.

 If the shoulder portion of a passenger belt is pulled out all the way, the child restraint locking feature may be engaged. If this happens, let the belt go back all the way and start again.

Information Provided by: DEALER E-PROCESS

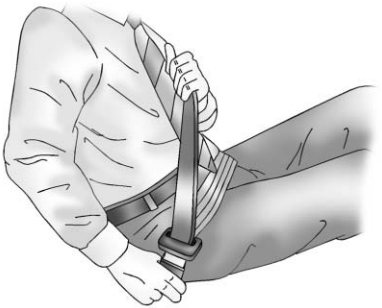


3. Push the latch plate into the buckle until it clicks.

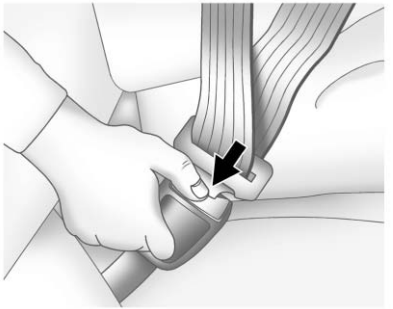
 Pull up on the latch plate to make sure it is secure. If the belt is not long enough, see *Safety Belt Extender on page 3-23*.

 Position the release button on the buckle so that the safety belt could be quickly unbuckled if necessary.

 If equipped with a shoulder belt height adjuster, move it to the height that is right for you. See "Shoulder Belt Height Adjuster" later in this section for instructions on use and important safety information.



4. To make the lap part tight, pull up on the shoulder belt.



To unlatch the belt, push the button on the buckle. The belt should return to its stowed position.

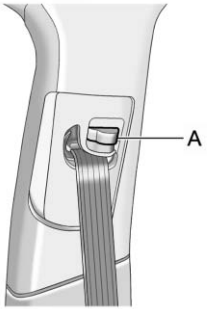
Before a door is closed, be sure the safety belt is out of the way. If a door is slammed against a safety belt, damage can occur to both the safety belt and the vehicle.

Information Provided by:
DEALER E-PROCESS

Shoulder Belt Height Adjuster

The vehicle has a shoulder belt height adjuster for the driver and right front passenger seating positions.

Adjust the guide so the shoulder portion of the belt is on the shoulder and not falling off of it. The belt should be close to, but not contacting, the neck. Improper shoulder belt height adjustment could reduce the effectiveness of the safety belt in a crash. See *How to Wear Safety Belts Properly on page 3-13*.



Press the release button (A) and move the height adjuster to the desired position. The adjuster can be moved up by pushing the slide/trim up. After the adjuster is set to the desired position, try to move it down without pushing the release button to make sure it has locked into position.

Safety Belt Pretensioners

This vehicle has safety belt pretensioners for front outboard occupants. Although the safety belt pretensioners cannot be seen, they are part of the safety belt assembly. They can help tighten the safety belts during the early stages of a moderate to severe frontal and near frontal crash if the threshold conditions for pretensioner activation are met.

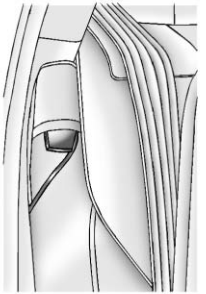
Pretensioners work only once. If the pretensioners activate in a crash, they will need to be replaced, and probably other new parts for the vehicle's safety belt system. See *Replacing Safety Belt System Parts After a Crash on page 3-24*.

Information Provided by:
DEALER E-PROCESS

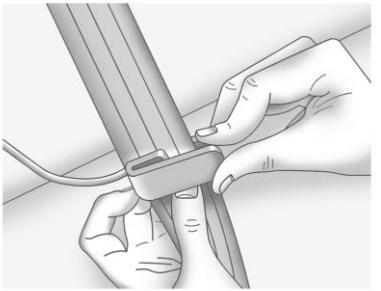
Rear Safety Belt Comfort Guides

This vehicle may have rear shoulder belt comfort guides. If not, they are available through the dealer. The guides may provide added safety belt comfort for older children who have outgrown booster seats and for some adults. When installed and properly adjusted, the comfort guide positions the belt away from the neck and head.

There is one guide, if equipped, for each outboard passenger position in the rear seat. To install a comfort guide to the safety belt:

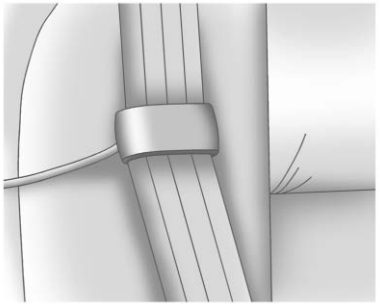


1. Remove the guide from its storage pocket on the side of the seat.



2. Place the guide over the belt, and insert the two edges of the belt into the slots of the guide.

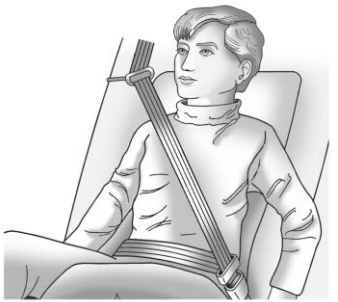
Information Provided by:
DEALER E-PROCESS



3. Be sure that the belt is not twisted and it lies flat. The elastic cord must be under the belt and the guide on top.

⚠ WARNING

A safety belt that is not properly worn may not provide the protection needed in a crash. The person wearing the belt could be seriously injured. The shoulder belt should go over the shoulder and across the chest. These parts of the body are best able to take belt restraining forces.



4. Buckle, position, and release the safety belt as described previously in this section. Make sure the shoulder portion of the belt is on the shoulder and not falling off of it. The belt should be close to, but not contacting, the neck.
5. To remove and store the comfort guide, squeeze the belt edges together so that the safety belt can be removed from the guide. Store the guide in its storage pocket on the seatback.

Information Provided by: DEALER E-PROCESS

Safety Belt Use During Pregnancy

Safety belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear safety belts.



A pregnant woman should wear a lap-shoulder belt, and the lap portion should be worn as low as possible, below the rounding, throughout the pregnancy.

The best way to protect the fetus is to protect the mother. When a safety belt is worn properly, it is more likely that the fetus will not be hurt in a crash. For pregnant women, as for anyone, the key to making safety belts effective is wearing them properly.

Safety Belt Extender

If the vehicle's safety belt will fasten around you, you should use it.

But if a safety belt is not long enough, your dealer will order you an extender. When you go in to order it, take the heaviest coat you will wear, so the extender will be long enough for you. To help avoid personal injury, do not let someone else use it, and use it only for the seat it is made to fit. The extender has been designed for adults. Never use it for securing child seats. To wear it, attach it to the regular safety belt. For more information, see the instruction sheet that comes with the extender.

Safety System Check

Now and then, check that the safety belt reminder light, safety belts, buckles, latch plates, retractors, and anchorages are working properly. Look for any other loose or damaged safety belt system parts that might keep a safety belt system from doing its job. See your dealer to have it repaired. Torn or frayed safety belts may not protect you in a crash. They can rip apart under impact forces. If a belt is torn or frayed, get a new one right away.

Make sure the safety belt reminder light is working. See *Safety Belt Reminders on page 5-10* for more information.

Keep safety belts clean and dry. See *Safety Belt Care on page 3-24*.

Information Provided by:
DEALER E-PROCESS

Safety Belt Care

Keep belts clean and dry.

⚠ WARNING

Do not bleach or dye safety belts. It may severely weaken them. In a crash, they might not be able to provide adequate protection. Clean safety belts only with mild soap and lukewarm water.

Replacing Safety Belt System Parts After a Crash

⚠ WARNING

A crash can damage the safety belt system in the vehicle. A damaged safety belt system may not properly protect the person using it, resulting in serious injury or even death in a crash. To help make sure the safety belt systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible.

After a minor crash, replacement of safety belts may not be necessary. But the safety belt assemblies that were used during any crash may have been stressed or damaged. See your dealer to have the safety belt assemblies inspected or replaced.

New parts and repairs may be necessary even if the safety belt system was not being used at the time of the crash.

Have the safety belt pretensioners checked if the vehicle has been in a crash, or if the airbag readiness light stays on after you start the vehicle or while you are driving. See *Airbag Readiness Light on page 5-11*.

Information Provided by: DEALER E-PROCESS

Airbag System

The vehicle has the following airbags:

- A frontal airbag for the driver.
- A frontal airbag for the right front passenger.
- A knee airbag for the driver.
- A knee airbag for the right front passenger.
- A seat-mounted side impact airbag for the driver and the passenger seated directly behind the driver.
- A seat-mounted side impact airbag for the right front passenger and the passenger seated directly behind the right front passenger.
- A roof-rail airbag for the driver and the passenger seated directly behind the driver.
- A roof-rail airbag for the right front passenger and the passenger seated directly behind the right front passenger.

All of the airbags in the vehicle will have the word AIRBAG embossed in the trim or on an attached label near the deployment opening.

For frontal airbags, the word AIRBAG will appear on the middle part of the steering wheel for the driver and on the instrument panel for the right front passenger.

With knee airbags, the word AIRBAG will appear on the lower portion of the instrument panel.

With seat-mounted side impact airbags, the word AIRBAG will appear on the side of the seatback closest to the door.

With roof-rail airbags, the word AIRBAG will appear along the headliner or trim.

Airbags are designed to supplement the protection provided by safety belts. Even though today's airbags are also designed to help reduce the risk of injury from the force of an inflating bag, all airbags must inflate very quickly to do their job.

Information Provided by:
DEALER E-PROCESS

Here are the most important things to know about the airbag system:

⚠ WARNING

You can be severely injured or killed in a crash if you are not wearing a safety belt — even if the vehicle has airbags. Airbags are designed to work with safety belts, but do not replace them. Also, airbags are not designed to deploy in every crash. In some crashes safety belts are the only restraint. See *When Should an Airbag Inflate? on page 3-29*.

Wearing a safety belt during a crash helps reduce your chance of hitting things inside the vehicle or being ejected from it. Airbags are “supplemental restraints” to the safety belts. Everyone in the vehicle should wear a safety belt properly — whether or not there is an airbag for that person.

⚠ WARNING

Airbags inflate with great force, faster than the blink of an eye. Anyone who is up against, or very close to, any airbag when it inflates can be seriously injured or killed. Do not sit unnecessarily close to the airbag, as you would be if you were sitting on the edge of the seat or leaning forward. Safety belts help keep you in position before and during a crash. Always wear a safety belt, even with airbags. The driver should sit as far back as possible while still maintaining control of the vehicle.

Occupants should not lean on or sleep against the door or side windows in seating positions with seat-mounted side impact airbags and/or roof-rail airbags.

⚠ WARNING

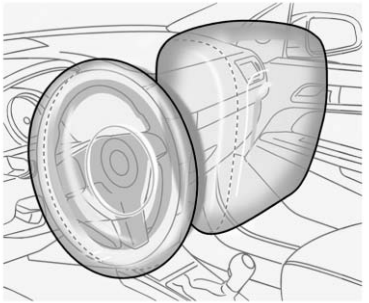
Children who are up against, or very close to, any airbag when it inflates can be seriously injured or killed. Airbags plus lap-shoulder belts offer protection for adults and older children, but not for young children and infants. Neither the vehicle's safety belt system nor its airbag system is designed for them. Young children and infants need the protection that a child restraint system can provide. Always secure children properly in the vehicle. To read how, see *Older Children on page 3-40* or *Infants and Young Children on page 3-43*.

Information Provided by: DEALER E-PROCESS



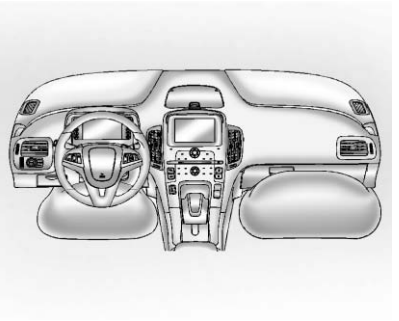
There is an airbag readiness light on the instrument panel cluster, which shows the airbag symbol. The system checks the airbag electrical system for malfunctions. The light tells you if there is an electrical problem. See *Airbag Readiness Light on page 5-11* for more information.

Where Are the Airbags?



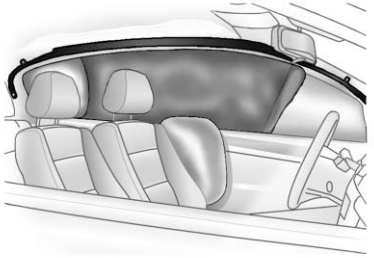
The driver frontal airbag is in the middle of the steering wheel.

The right front passenger frontal airbag is in the instrument panel on the passenger side.



The driver knee airbag is below the steering column. The front passenger knee airbag is below the glove box.

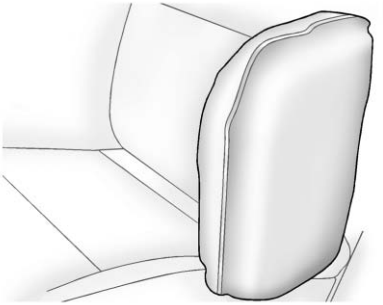
Information Provided by:
DEALER E-PROCESS



Driver Side Shown, Passenger Side Similar

The seat-mounted side impact airbags for the driver and right front passenger are in the side of the seatbacks closest to the door.

The roof-rail airbags for the driver, right front passenger, and second row outboard passengers are in the ceiling above the side windows.



Rear Seat Driver Side Shown, Passenger Side Similar

The second row seat-mounted side impact airbags are in the sides of the rear seatback closest to the door.

⚠ WARNING

If something is between an occupant and an airbag, the airbag might not inflate properly or it might force the object into that person causing severe injury

(Continued)

WARNING (Continued)

or even death. The path of an inflating airbag must be kept clear. Do not put anything between an occupant and an airbag, and do not attach or put anything on the steering wheel hub or on or near any other airbag covering.

Do not use seat accessories that block the inflation path of a seat-mounted side impact airbag.

Never secure anything to the roof of a vehicle with roof-rail airbags by routing a rope or tie down through any door or window opening. If you do, the path of an inflating roof-rail airbag will be blocked.

Information Provided by DEALER E-PROCESS

When Should an Airbag Inflate?

Frontal airbags are designed to inflate in moderate to severe frontal or near-frontal crashes to help reduce the potential for severe injuries mainly to the driver's or right front passenger's head and chest. However, they are only designed to inflate if the impact exceeds a predetermined deployment threshold. Deployment thresholds are used to predict how severe a crash is likely to be in time for the airbags to inflate and help restrain the occupants.

Whether the frontal airbags will or should deploy depends largely on what you hit, the direction of the impact, and how quickly your vehicle slows down.

Frontal airbags may inflate at different crash speeds. For example:

- If the vehicle hits a stationary object, the airbags could inflate at a different crash speed than if the vehicle hits a moving object.
- If the vehicle hits an object that deforms, the airbags could inflate at a different crash speed than if the vehicle hits an object that does not deform.
- If the vehicle hits a narrow object (like a pole), the airbags could inflate at a different crash speed than if the vehicle hits a wide object (like a wall).
- If the vehicle goes into an object at an angle, the airbags could inflate at a different crash speed than if the vehicle goes straight into the object.

Thresholds can also vary with specific vehicle design.

Frontal airbags are not intended to inflate during vehicle rollovers, rear impacts, or in many side impacts.

In addition, the vehicle has dual-stage frontal airbags. Dual-stage airbags adjust the restraint according to crash severity.

Frontal knee airbags are designed to inflate in moderate to severe frontal or near frontal impacts that exceed a predetermined deployment threshold.

The vehicle has electronic frontal sensors, which help the sensing system distinguish between a moderate frontal impact and a more severe frontal impact. For moderate frontal impacts, dual-stage airbags inflate at a level less than full deployment. For more severe frontal impacts, full deployment occurs.

Information Provided by:
DEALER E-PROCESS

The vehicle has seat-mounted side impact airbags and roof-rail airbags. See *Airbag System on page 3-25*. Seat-mounted side impact and roof-rail airbags are intended to inflate in moderate to severe side crashes. In addition, these roof-rail airbags are intended to inflate during a rollover or in a severe frontal impact. Seat-mounted side impact and roof-rail airbags will inflate if the crash severity is above the system's designed threshold level. The threshold level can vary with specific vehicle design.

Roof-rail airbags are not intended to inflate in rear impacts.
A seat-mounted side impact airbag is intended to deploy on the side of the vehicle that is struck. Both roof-rail airbags will deploy when either side of the vehicle is struck or if the sensing system predicts that the vehicle is about to roll over, or in a severe frontal impact.

In any particular crash, no one can say whether an airbag should have inflated simply because of the damage to a vehicle or because of what the repair costs were. For frontal airbags, inflation is determined by what the vehicle hits, the angle of the impact, and how quickly the vehicle slows down. For seat-mounted side impact and roof-rail airbags, deployment is determined by the location and severity of the side impact.

In a rollover event, roof-rail airbag deployment is determined by the direction of the roll.

What Makes an Airbag Inflate?

In a deployment event, the sensing system sends an electrical signal triggering a release of gas from the inflator. Gas from the inflator fills the airbag causing the bag to break out of the cover and deploy. The inflator, the airbag, and related hardware are all part of the airbag module.

Frontal airbag modules are located inside the steering wheel and instrument panel. For vehicles with knee airbags, there are airbag modules below the steering column and below the glove box. For vehicles with seat-mounted side impact airbags, there are airbag modules in the side of the seatbacks closest to the door. For vehicles with roof-rail airbags, there are airbag modules in the ceiling of the vehicle, near the side windows that have occupant seating positions.

Information Provided by:
DEALER E-PROCESS

How Does an Airbag Restrain?

In moderate to severe frontal or near frontal collisions, even belted occupants can contact the steering wheel or the instrument panel. In moderate to severe side collisions, even belted occupants can contact the inside of the vehicle.

Airbags supplement the protection provided by safety belts. Frontal airbags with knee airbags distribute the force of the impact more evenly over the occupant's body, stopping the occupant more gradually. Seat-mounted side impact and roof-rail airbags distribute the force of the impact more evenly over the occupant's upper body.

Rollover capable roof-rail airbags are designed to help contain the head an chest of occupants in the outboard seating positions in the first and second rows. The rollover capable roof-rail airbags are designed to help reduce the risk of full or partial ejection in rollover events, although no system can prevent all such ejections.

But airbags would not help in many types of collisions, primarily because the occupant's motion is not toward those airbags. See *When Should an Airbag Inflate? on page 3-29* for more information.

Airbags should never be regarded as anything more than a supplement to safety belts.

What Will You See After an Airbag Inflates?

After the frontal airbags and seat-mounted side impact airbags inflate, they quickly deflate, so quickly that some people may not even realize an airbag inflated. Roof-rail airbags may still be at least partially inflated for some time after they deploy. Some components of the airbag module may be hot for several minutes. For location of the airbag modules, see *What Makes an Airbag Inflate? on page 3-30*.

Information Provided by:
DEALER E-PROCESS

The parts of the airbag that come into contact with you may be warm, but not too hot to touch. There may be some smoke and dust coming from the vents in the deflated airbags. Airbag inflation does not prevent the driver from seeing out of the windshield or being able to steer the vehicle, nor does it prevent people from leaving the vehicle.

⚠ WARNING

When an airbag inflates, there may be dust in the air. This dust could cause breathing problems for people with a history of asthma or other breathing trouble. To avoid this, everyone in the vehicle should get out as soon as it is safe to do so. If you have breathing problems but cannot get out of the vehicle after an airbag inflates, then get fresh air by opening a window or a door. If you experience breathing

(Continued)

WARNING (Continued)

problems following an airbag deployment, you should seek medical attention.

The vehicle has a feature that may automatically unlock the doors, turn on the interior lamps, turn on the hazard warning flashers, and shut off the fuel system after the airbags inflate. You can lock the doors, turn off the interior lamps, and turn off the hazard warning flashers by using the controls for those features.

⚠ WARNING

A crash severe enough to inflate the airbags may have also damaged important functions in the vehicle, such as the fuel system, brake and steering systems, etc. Even if the vehicle appears to be drivable after a moderate crash, there may be concealed damage that could make it difficult to safely operate the vehicle.

Use caution if you should attempt to restart the engine after a crash has occurred.

Information Provided by: DEALER E-PROCESS

In many crashes severe enough to inflate the airbag, windshields are broken by vehicle deformation. Additional windshield breakage may also occur from the right front passenger airbag.

- Airbags are designed to inflate only once. After an airbag inflates, you will need some new parts for the airbag system. If you do not get them, the airbag system will not be there to help protect you in another crash. A new system will include airbag modules and possibly other parts. The service manual for your vehicle covers the need to replace other parts.
- The vehicle has a crash sensing and diagnostic module which records information after a crash. See *Vehicle Data Recording and Privacy on page 13-14* and *Event Data Recorders on page 13-15*.
- Let only qualified technicians work on the airbag systems. Improper service can mean that an airbag system will not work properly. See your dealer for service.

Passenger Sensing System

The vehicle has a passenger sensing system for the right front passenger position. The passenger airbag status indicator will be visible on the instrument panel when the vehicle is started.



United States



Canada

The words ON and OFF, or the symbol for on and off, will be visible during the system check. If you are using remote start, if equipped, to start the vehicle from a distance, you may not see the system check. When the system check is complete, either the word ON or OFF, or the symbol for on or off, will be visible. See *Passenger Airbag Status Indicator on page 5-12*.

Information Provided by:
DEALER E-PROCESS

The passenger sensing system turns off the right front passenger frontal airbag and passenger knee airbag, under certain conditions. The driver airbag, driver knee airbag, seat-mounted side impact airbags, and roof-rail airbags are not affected by the passenger sensing system.

The passenger sensing system works with sensors that are part of the right front passenger seat. The sensors are designed to detect the presence of a properly seated occupant and determine if the right front passenger frontal airbag and passenger knee airbag should be enabled (may inflate) or not.

According to accident statistics, children are safer when properly secured in a rear seat in the correct child restraint for their weight and size.

We recommend that children be secured in a rear seat, including: an infant or a child riding in a rear-facing child restraint; a child riding in a forward-facing child seat; an older child riding in a booster seat; and children, who are large enough, using safety belts.

A label on the sun visor says, “Never put a rear-facing child seat in the front.” This is because the risk to the rear-facing child is so great, if the airbag deploys.

⚠ WARNING

A child in a rear-facing child restraint can be seriously injured or killed if the right front passenger airbag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating airbag. A child in a forward-facing child restraint can be seriously injured or killed if the right front

(Continued)

WARNING (Continued)

passenger airbag inflates and the passenger seat is in a forward position.

Even if the passenger sensing system has turned off the right front passenger frontal airbag(s), no system is fail-safe. No one can guarantee that an airbag will not deploy under some unusual circumstance, even though the airbag(s) are off.

Secure rear-facing child restraints in a rear seat, even if the airbag(s) are off. If you secure a forward-facing child restraint in the right front seat, always move the front passenger seat as far back as it will go. It is better to secure the child restraint in a rear seat.

Information Provided by: DEALER E-PROCESS

The passenger sensing system is designed to turn off the right front passenger frontal airbag and passenger knee airbag if:

- The right front passenger seat is unoccupied.
- The system determines that an infant is present in a rear-facing infant seat.
- The system determines that a small child is present in a child restraint.
- The system determines that a small child is present in a booster seat.
- A right front passenger takes his/her weight off of the seat for a period of time.
- The right front passenger seat is occupied by a smaller person, such as a child who has outgrown child restraints.
- Or, if there is a critical problem with the airbag system or the passenger sensing system.

When the passenger sensing system has turned off the right front passenger frontal airbag and passenger knee airbag, the off indicator will light and stay lit to remind you that the airbags are off. See *Passenger Airbag Status Indicator on page 5-12*.

The passenger sensing system is designed to turn on (may inflate) the right front passenger frontal airbag and passenger knee airbag anytime the system senses that a person of adult size is sitting properly in the right front passenger seat. When the passenger sensing system has allowed the airbag to be enabled, the on indicator will light and stay lit to remind you that the airbags are active.

For some children who have outgrown child restraints and for very small adults, the passenger sensing system may or may not turn off the right front passenger frontal airbag and passenger knee airbag, depending upon the person's seating posture and body build.

Everyone in the vehicle who has outgrown child restraints should wear a safety belt properly — whether or not there is an airbag for that person.

⚠ WARNING

If the airbag readiness light ever comes on and stays on, it means that something may be wrong with the airbag system. To help avoid injury to yourself or others, have the vehicle serviced right away. See *Airbag Readiness Light on page 5-11* for more information, including important safety information.

DEALER E-PROCESS

If the On Indicator is Lit for a Child Restraint

If a child restraint has been installed and the on indicator is lit:

1. Turn the vehicle off.
2. Remove the child restraint from the vehicle.
3. Remove any additional items from the seat such as blankets, cushions, seat covers, seat heaters, or seat massagers.
4. Reinstall the child restraint following the directions provided by the child restraint manufacturer and refer to *Securing Child Restraints (Rear Seat) on page 3-56* or *Securing Child Restraints (Front Passenger Seat) on page 3-58*.
5. If, after reinstalling the child restraint and restarting the vehicle, the on indicator is still lit, turn the vehicle off. Then slightly recline the vehicle seatback and adjust the seat cushion, if adjustable, to make sure that the vehicle seatback is not pushing the child restraint into the seat cushion.
6. Restart the vehicle.

 If the on indicator is still lit, secure the child in the child restraint in a rear seat position in the vehicle, and check with your dealer.

If the Off Indicator is Lit for an Adult-Size Occupant



If a person of adult-size is sitting in the right front passenger seat, but the off indicator is lit, it could be because that person is not sitting properly in the seat. If this happens,

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use the following steps to allow the system to detect that person and enable the right front passenger frontal airbag and passenger knee airbag:

1. Turn the vehicle off.
2. Remove any additional material from the seat, such as blankets, cushions, seat covers, seat heaters, or seat massagers.
3. Place the seatback in the fully upright position.
4. Have the person sit upright in the seat, centered on the seat cushion, with legs comfortably extended.
5. Restart the vehicle and have the person remain in this position for one minute after the on indicator is lit.

Additional Factors Affecting System Operation

Safety belts help keep the passenger in position on the seat during vehicle maneuvers and braking, which helps the passenger sensing system maintain the passenger airbag status. See “Safety Belts” and “Child Restraints” in the Index for additional information about the importance of proper restraint use.

A thick layer of additional material, such as a blanket or cushion, or aftermarket equipment such as seat covers, seat heaters, and seat massagers can affect how well the passenger sensing system operates. We recommend that you not use seat covers or other aftermarket equipment except when approved by GM for your specific vehicle. See *Adding Equipment to the Airbag-Equipped Vehicle on page 3-38* for more information about modifications that can affect how the system operates.

⚠ WARNING

Stowing of articles under the passenger seat or between the passenger seat cushion and seatback may interfere with the proper operation of the passenger sensing system.

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Servicing the Airbag-Equipped Vehicle

Airbags affect how the vehicle should be serviced. There are parts of the airbag system in several places around the vehicle. Your dealer and the service manual have information about servicing the vehicle and the airbag system. To purchase a service manual, see *Service Publications Ordering Information on page 13-12*.

⚠ WARNING

For up to 10 seconds after the ignition is turned off and the battery is disconnected, an airbag can still inflate during improper service. You can be injured if you are close to an airbag when it inflates. Avoid yellow connectors. They are probably part of the airbag system. Be sure to follow

(Continued)

WARNING (Continued)

proper service procedures, and make sure the person performing work for you is qualified to do so.

Adding Equipment to the Airbag-Equipped Vehicle

Q: Is there anything I might add to or change about the vehicle that could keep the airbags from working properly?

A: Yes. If you add things that change the vehicle's frame, bumper system, height, front end or side sheet metal, they may keep the airbag system from working properly. Changing or moving any parts of the front seats, safety belts, the airbag sensing and diagnostic module, steering wheel, instrument panel, roof-rail airbag modules, ceiling headliner or pillar garnish trim, front sensors, side impact sensors, or airbag wiring can affect the operation of the airbag system.

In addition, the vehicle has a passenger sensing system for the right front passenger position, which includes sensors that are part of the passenger seat. The passenger sensing system may not operate properly if the original seat trim is replaced with non-GM covers, upholstery or trim, or with GM covers, upholstery or trim designed for a different vehicle. Any object, such as an aftermarket seat heater or a comfort enhancing pad or device, installed under or on top of the seat fabric, could also interfere with the operation of the passenger sensing system.

Information Provided by: DEALER E-PROCESS

This could either prevent proper deployment of the passenger airbag(s) or prevent the passenger sensing system from properly turning off the passenger airbag(s). See *Passenger Sensing System on page 3-33*.

If you have questions, call Customer Assistance. The phone numbers and addresses for Customer Assistance are in Step Two of the Customer Satisfaction Procedure in this manual. See *Customer Satisfaction Procedure on page 13-1*.

If the vehicle has rollover roof-rail airbags, see *Different Size Tires and Wheels on page 10-61* for additional important information.

Q: Because I have a disability, I have to get my vehicle modified. How can I find out whether this will affect my airbag system?

A: If you have questions, call Customer Assistance. The phone numbers and addresses for Customer Assistance are in Step Two of the Customer Satisfaction Procedure in this manual. See *Customer Satisfaction Procedure on page 13-1*.

In addition, your dealer and the service manual have information about the location of the airbag sensors, sensing and diagnostic module and airbag wiring.

Airbag System Check

The airbag system does not need regularly scheduled maintenance or replacement. Make sure the airbag readiness light is working. See *Airbag Readiness Light on page 5-11* for more information.

Notice: **If an airbag covering is damaged, opened, or broken, the airbag may not work properly. Do not open or break the airbag coverings. If there are any opened or broken airbag covers, have the airbag covering and/or airbag module replaced. For the location of the airbag modules, see *What Makes an Airbag Inflate? on page 3-30*. See your dealer for service.**

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Replacing Airbag System Parts After a Crash

⚠ WARNING

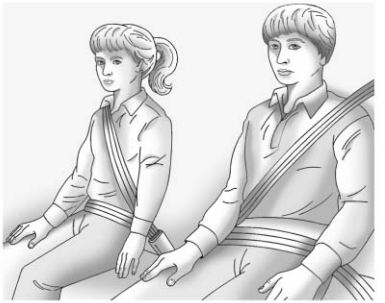
A crash can damage the airbag systems in the vehicle. A damaged airbag system may not work properly and may not protect you and your passenger(s) in a crash, resulting in serious injury or even death. To help make sure the airbag systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible.

If an airbag inflates, you will need to replace airbag system parts. See your dealer for service.

If the airbag readiness light stays on after the vehicle is started or comes on when you are driving, the airbag system may not work properly. Have the vehicle serviced right away. See *Airbag Readiness Light on page 5-11* for more information.

Child Restraints

Older Children



Older children who have outgrown booster seats should wear the vehicle safety belts.

Information Provided by: DEALER E-PROCESS

The manufacturer's instructions that come with the booster seat state the weight and height limitations for that booster. Use a booster seat with a lap-shoulder belt until the child passes the fit test below:

- Sit all the way back on the seat. Do the knees bend at the seat edge? If yes, continue. If no, return to the booster seat.
- Buckle the lap-shoulder belt. Does the shoulder belt rest on the shoulder? If yes, continue. If no, try using the rear safety belt comfort guide. See “Rear Safety Belt Comfort Guides” under *Lap-Shoulder Belt on page 3-18* for more information. If the shoulder belt still does not rest on the shoulder, then return to the booster seat.
- Does the lap belt fit low and snug on the hips, touching the thighs? If yes, continue. If no, return to the booster seat.
- Can proper safety belt fit be maintained for the length of the trip? If yes, continue. If no, return to the booster seat.

Q: What is the proper way to wear safety belts?

A: An older child should wear a lap-shoulder belt and get the additional restraint a shoulder belt can provide. The shoulder belt should not cross the face or neck. The lap belt should fit snugly below the hips, just touching the top of the thighs. This applies belt force to the child's pelvic bones in a crash. It should never be worn over the abdomen, which could cause severe or even fatal internal injuries in a crash.

Also see “Rear Safety Belt Comfort Guides” under *Lap-Shoulder Belt on page 3-18*.

According to accident statistics, children and infants are safer when properly restrained in a child restraint system or infant restraint system secured in a rear seating position.

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In a crash, children who are not buckled up can strike other people who are buckled up, or can be thrown out of the vehicle. Older children need to use safety belts properly.

⚠ WARNING

Never do this.

Never allow two children to wear the same safety belt. The safety belt can not properly spread the impact forces. In a crash, the two children can be crushed together and seriously injured. A safety belt must be used by only one person at a time.



⚠ WARNING

Never do this.

Never allow a child to wear the safety belt with the shoulder belt behind their back. A child can be seriously injured by not wearing the lap-shoulder belt properly. In a crash, the child would not be restrained by the shoulder belt. The child could move too far forward increasing the chance of head and neck injury. The child

(Continued)

WARNING (Continued)

might also slide under the lap belt. The belt force would then be applied right on the abdomen. That could cause serious or fatal injuries. The shoulder belt should go over the shoulder and across the chest.



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Infants and Young Children

Everyone in a vehicle needs protection! This includes infants and all other children. Neither the distance traveled nor the age and size of the traveler changes the need, for everyone, to use safety restraints. In fact, the law in every state in the United States and in every Canadian province says children up to some age must be restrained while in a vehicle.

⚠ WARNING

Children can be seriously injured or strangled if a shoulder belt is wrapped around their neck and the safety belt continues to tighten. Never leave children unattended in a vehicle and never allow children to play with the safety belts.

Airbags plus lap-shoulder belts offer protection for adults and older children, but not for young children and infants. Neither the vehicle's safety belt system nor its airbag system is designed for them. Every time infants and young children ride in vehicles, they should have the protection provided by appropriate child restraints.

Children who are not restrained properly can strike other people, or can be thrown out of the vehicle.

⚠ WARNING

Never do this.

Never hold an infant or a child while riding in a vehicle. Due to crash forces, an infant or a child will become so heavy it is not possible to hold it during a crash. For example, in a crash at only 40 km/h (25 mph), a 5.5 kg (12 lb) infant will suddenly become a

(Continued)

WARNING (Continued)

110 kg (240 lb) force on a person's arms. An infant should be secured in an appropriate restraint.



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⚠ WARNING

Never do this.

Children who are up against, or very close to, any airbag when it inflates can be seriously injured or killed. Never put a rear-facing child restraint in the right front seat. Secure a rear-facing child restraint in a rear seat. It is also better to secure a forward-facing child restraint in a rear seat. If you must secure a forward-facing child restraint in the right front seat, always move the front passenger seat as far back as it will go.



Q: What are the different types of add-on child restraints?

A: Add-on child restraints, which are purchased by the vehicle owner, are available in four basic types. Selection of a particular restraint should take into consideration not only the child's weight, height, and age but also whether or not the restraint will be compatible with the motor vehicle in which it will be used.

For most basic types of child restraints, there are many different models available. When purchasing a child restraint, be sure it is designed to be used in a motor vehicle. If it is, the restraint will have a label saying that it meets federal motor vehicle safety standards.

The restraint manufacturer's instructions that come with the restraint state the weight and height limitations for a particular child restraint. In addition, there are many kinds of restraints available for children with special needs.

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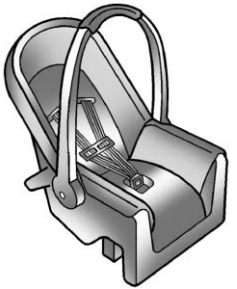
⚠ WARNING

To reduce the risk of neck and head injury during a crash, infants need complete support. This is because an infant's neck is not fully developed and its head weighs so much compared with the rest of its body. In a crash, an infant in a rear-facing child restraint settles into the restraint, so the crash forces can be distributed across the strongest part of an infant's body, the back and shoulders. Infants should always be secured in rear-facing child restraints.

⚠ WARNING

A young child's hip bones are still so small that the vehicle's regular safety belt may not remain low on the hip bones, as it should. Instead, it may settle up around the child's abdomen. In a crash, the belt would apply force on a body area that is unprotected by any bony structure. This alone could cause serious or fatal injuries. To reduce the risk of serious or fatal injuries during a crash, young children should always be secured in appropriate child restraints.

Child Restraint Systems



(A) Rear-Facing Infant Seat

A rear-facing infant seat (A) provides restraint with the seating surface against the back of the infant.

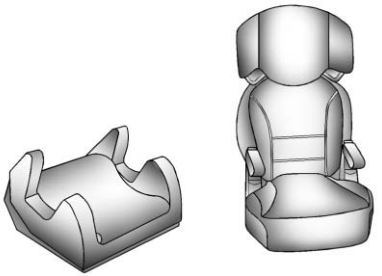
The harness system holds the infant in place and, in a crash, acts to keep the infant positioned in the restraint.

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(B) Forward-Facing Child Seat

A forward-facing child seat (B) provides restraint for the child's body with the harness.



(C) Booster Seats

A booster seat (C) is a child restraint designed to improve the fit of the vehicle's safety belt system.
A booster seat can also help a child to see out the window.

Securing an Add-On Child Restraint in the Vehicle

⚠ WARNING

A child can be seriously injured or killed in a crash if the child restraint is not properly secured in the vehicle. Secure the child restraint properly in the vehicle using the vehicle safety belt or LATCH system, following the instructions that came with that child restraint and the instructions in this manual.

To help reduce the chance of injury, the child restraint must be secured in the vehicle. Child restraint systems must be secured in vehicle seats by lap belts or the lap belt portion of a lap-shoulder belt, or by the LATCH system. See *Lower Anchors and Tethers for Children (LATCH System) on page 3-49* for more information. Children can be

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endangered in a crash if the child restraint is not properly secured in the vehicle.

When securing an add-on child restraint, refer to the instructions that come with the restraint which may be on the restraint itself or in a booklet, or both, and to this manual. The child restraint instructions are important, so if they are not available, obtain a replacement copy from the manufacturer.

Keep in mind that an unsecured child restraint can move around in a collision or sudden stop and injure people in the vehicle. Be sure to properly secure any child restraint in the vehicle — even when no child is in it.

In some areas, Certified Child Passenger Safety Technicians (CPSTs) are available to inspect and demonstrate how to correctly use and install child restraints. In the U.S., refer to the National Highway Traffic Safety Administration (NHTSA) website to locate the nearest child safety seat inspection station. For CPST availability in Canada, check with Transport Canada or the Provincial Ministry of Transportation office.

Securing the Child Within the Child Restraint

⚠ WARNING

A child can be seriously injured or killed in a crash if the child is not properly secured in the child restraint. Secure the child properly following the instructions that came with that child restraint.

Where to Put the Restraint

According to accident statistics, children and infants are safer when properly restrained in a child restraint system or infant restraint system secured in a rear seating position.

We recommend that children and child restraints be secured in a rear seat, including: an infant or a child riding in a rear-facing child restraint; a child riding in a forward-facing child seat; an older child riding in a booster seat; and children, who are large enough, using safety belts.

Information Provided by: DEALER E-PROCESS

A label on the sun visor says, “Never put a rear-facing child restraint in the front.” This is because the risk to the rear-facing child is so great if the airbag deploys.

⚠ WARNING

A child in a rear-facing child restraint can be seriously injured or killed if the right front passenger airbag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating airbag. A child in a forward-facing child restraint can be seriously injured or killed if the right front passenger airbag inflates and the passenger seat is in a forward position.

Even if the passenger sensing system has turned off the right front passenger frontal airbag, no system is fail-safe. No one can

(Continued)

WARNING (Continued)

guarantee that an airbag will not deploy under some unusual circumstance, even though it is turned off.

Secure rear-facing child restraints in a rear seat, even if the airbag is off. If you secure a forward-facing child restraint in the right front seat, always move the front passenger seat as far back as it will go. It is better to secure the child restraint in a rear seat.

See *Passenger Sensing System on page 3-33* for additional information.

When securing a child restraint in a rear seating position, study the instructions that came with the child restraint to make sure it is compatible with this vehicle.

Child restraints and booster seats vary considerably in size, and some may fit in certain seating positions better than others. Always make sure the child restraint is properly secured.

Depending on where you place the child restraint and the size of the child restraint you may not be able to access adjacent safety belt assemblies or LATCH anchors for additional passengers or child restraints. Adjacent seating positions should not be used if the child restraint prevents access to or interferes with the routing of the safety belt.

Wherever a child restraint is installed, be sure to secure the child restraint properly.

Keep in mind that an unsecured child restraint can move around in a collision or sudden stop and injure people in the vehicle. Be sure to properly secure any child restraint in the vehicle — even when no child is in it.

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Lower Anchors and Tethers for Children (LATCH System)

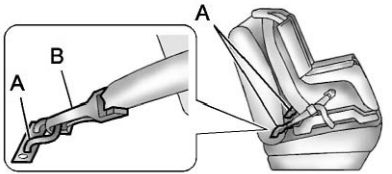
The LATCH system holds a child restraint during driving or in a crash. This system is designed to make installation of a child restraint easier. The LATCH system uses anchors in the vehicle and attachments on the child restraint that are made for use with the LATCH system.

Make sure that a LATCH-compatible child restraint is properly installed using the anchors, or use the vehicle's safety belts to secure the restraint, following the instructions that came with that restraint, and also the instructions in this manual. When installing a child restraint with a top tether, you must also use either the lower anchors or the safety belts to properly secure the child restraint. A child restraint must never be installed using only the top tether anchor.

In order to use the LATCH system in the vehicle, you need a child restraint that has LATCH attachments. The child restraint manufacturer will provide you with instructions on how to use the child restraint and its attachments. The following explains how to attach a child restraint with these attachments in the vehicle.

Not all vehicle seating positions or child restraints have lower anchors and attachments or top tether anchors and attachments.

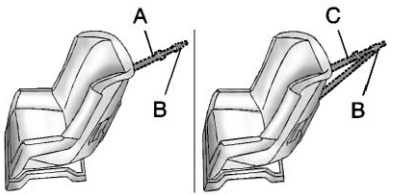
Lower Anchors



Lower anchors (A) are metal bars built into the vehicle. There are two lower anchors for each LATCH seating position that will accommodate a child restraint with lower attachments (B).

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Top Tether Anchor

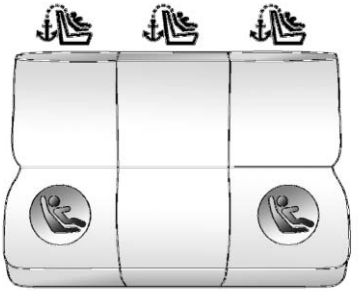


A top tether (A, C) anchors the top of the child restraint to the vehicle. A top tether anchor is built into the vehicle. The top tether attachment (B) on the child restraint connects to the top tether anchor in the vehicle in order to reduce the forward movement and rotation of the child restraint during driving or in a crash.

The child restraint may have a single tether (A) or a dual tether (C). Either will have a single attachment (B) to secure the top tether to the anchor.

Some child restraints that have a top tether are designed for use with or without the top tether being attached. Others require the top tether always to be attached. In Canada, the law requires that forward-facing child restraints have a top tether, and that the tether be attached. Be sure to read and follow the instructions for the child restraint.

Lower Anchor and Top Tether Anchor Locations



Rear Seat

(Top Tether Anchor): Seating positions with top tether anchors.

(Lower Anchor): Seating positions with two lower anchors.

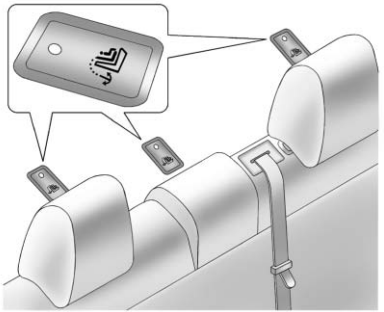
Information Provided by:
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To assist you in locating the lower anchors, each rear anchor position has a label, near the crease between the seatback and the seat cushion.



To assist you in locating the top tether anchors, the top tether anchor symbol is located on the cover.



The top tether anchors are located under the covers, behind the rear seat, on the filler panel. Be sure to use an anchor located on the same side of the vehicle as the seating position where the child restraint will be placed.

Do not secure a child restraint in a position without a top tether anchor if a national or local law requires that the top tether be attached, or if the instructions that come with the child restraint say that the top tether must be attached.

According to accident statistics, children and infants are safer when properly restrained in a child restraint system or infant restraint system secured in a rear seating position. See *Where to Put the Restraint on page 3-47* for additional information.

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Securing a Child Restraint Designed for the LATCH System

⚠ WARNING

If a LATCH-type child restraint is not attached to anchors, the child restraint will not be able to protect the child correctly. In a crash, the child could be seriously injured or killed. Install a LATCH-type child restraint properly using the anchors, or use the vehicle safety belts to secure the restraint, following the instructions that came with the child restraint and the instructions in this manual.

⚠ WARNING

Do not attach more than one child restraint to a single anchor. Attaching more than one child

(Continued)

WARNING (Continued)

restraint to a single anchor could cause the anchor or attachment to come loose or even break during a crash. A child or others could be injured. To reduce the risk of serious or fatal injuries during a crash, attach only one child restraint per anchor.

⚠ WARNING

Children can be seriously injured or strangled if a shoulder belt is wrapped around their neck and the safety belt continues to tighten. Buckle any unused safety belts behind the child restraint so children cannot reach them. Pull the shoulder belt all the way out of the retractor to set the lock, if your vehicle has one, after the child restraint has been installed.

Notice: **Do not let the LATCH attachments rub against the vehicle's safety belts. This may damage these parts. If necessary, move buckled safety belts to avoid rubbing the LATCH attachments.**

Do not fold the empty rear seat with a safety belt buckled. This could damage the safety belt or the seat. Unbuckle and return the safety belt to its stowed position, before folding the seat.

If you need to secure more than one child restraint in the rear seat, see *Where to Put the Restraint on page 3-47* for additional information.

Make sure to attach the child restraint at the proper anchor location.

This system is designed to make installation of child restraints easier. When using lower anchors, do not use the vehicle's safety belts. Instead use the vehicle's anchors and child restraint attachments to

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secure the restraints. Some restraints also use another vehicle anchor to secure a top tether.

1. Attach and tighten the lower attachments to the lower anchors. If the child restraint does not have lower attachments or the desired seating position does not have lower anchors, secure the child restraint with the top tether and the safety belts. Refer to the child restraint manufacturer instructions and the instructions in this manual.

 1.1. Find the lower anchors for the desired rear outboard seating position.

 1.2. Put the child restraint on the seat.

 For outboard rear seating positions, if the head restraint interferes with the proper installation of the child restraint, the head restraint may be removed. See “Head Restraint Removal and Reinstallation” at the end of this section.

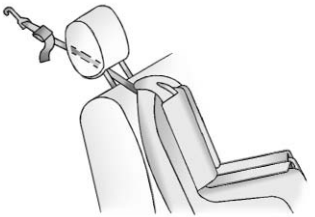
 1.3. Attach and tighten the lower attachments on the child restraint to the lower anchors.

2. If the child restraint manufacturer recommends that the top tether be attached, attach and tighten the top tether to the top tether anchor. Refer to the child restraint instructions and the following steps:

 2.1. Find the top tether anchor.

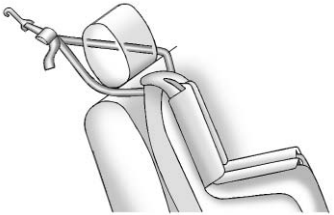
 Open the cover to expose the anchor.

 2.2. Route, attach, and tighten the top tether according to the child restraint instructions and the following instructions:

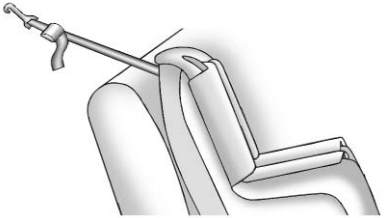


- If you are using a single tether in a rear outboard seating position with an adjustable head restraint, or in the center seating position with an adjustable headrest, route the single tether under the head restraint or headrest. See *Head Restraints on page 3-2* for additional information.

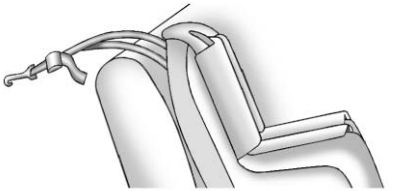
Information Provided by:
DEALER E-PROCESS



- If you are using a dual tether in a rear outboard seating position with an adjustable head restraint, or in the center seating position with an adjustable headrest, route the dual tether around the head restraint or headrest. See *Head Restraints on page 3-2* for additional information.



- If you are using a single tether in the center seating position without a headrest, or the rear outboard head restraint has been removed, route the single tether over the seatback.



- If you are using a dual tether in the center seating position without a headrest, or the rear outboard head restraint has been removed, route the dual tether over the seatback.

3. Before placing a child in the child restraint, make sure it is securely held in place. To check, grasp the child restraint at the LATCH path and attempt to move it side-to-side and back-and-forth. There should be no more than 2.5 cm (1 in) of movement, for proper installation.

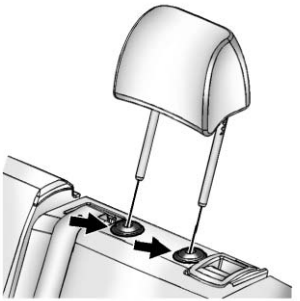
Information Provided by:
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Head Restraint Removal and Reinstallation

The rear outboard head restraints can be removed if they interfere with the proper installation of the child restraint.

To remove the head restraint:

1. Partially fold the seatback forward. See *Rear Seats on page 3-8* for additional information.



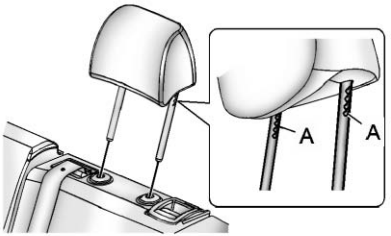
2. Press both buttons on the head restraint posts at the same time, and pull up on the head restraint.
3. Store the head restraint in the trunk of the vehicle.
4. When the child restraint is removed, reinstall the head restraint before the seating position is used.

⚠ WARNING

With head restraints that are not installed and adjusted properly, there is a greater chance that occupants will suffer a neck/spinal injury in a crash. Do not drive until the head restraints for all occupants are installed and adjusted properly.

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To reinstall the head restraint:



1. Insert the head restraint posts into the holes in the top of the seatback. The notches (A) on the posts must face the driver side of the vehicle.
2. Push the head restraint all the way down.
3. Pull up on the head restraint to be sure that it locks.

Replacing LATCH System Parts After a Crash

⚠ WARNING

A crash can damage the LATCH system in the vehicle. A damaged LATCH system may not properly secure the child restraint, resulting in serious injury or even death in a crash. To help make sure the LATCH system is working properly after a crash, see your dealer to have the system inspected and any necessary replacements made as soon as possible.

If the vehicle has the LATCH system and it was being used during a crash, new LATCH system parts may be needed.

New parts and repairs may be necessary even if the LATCH system was not being used at the time of the crash.

Securing Child Restraints (Rear Seat)

When securing a child restraint in a rear seating position, study the instructions that came with the child restraint to make sure it is compatible with this vehicle.

If the child restraint has the LATCH system, see *Lower Anchors and Tethers for Children (LATCH System) on page 3-49* for how and where to install the child restraint using LATCH. If a child restraint is secured in the vehicle using a safety belt and it uses a top tether, see *Lower Anchors and Tethers for Children (LATCH System) on page 3-49* for top tether anchor locations.

Do not secure a child seat in a position without a top tether anchor if a national or local law requires that the top tether be anchored, or if the instructions that come with the child restraint say that the top strap must be anchored.

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In Canada, the law requires that forward-facing child restraints have a top tether, and that the tether be attached.

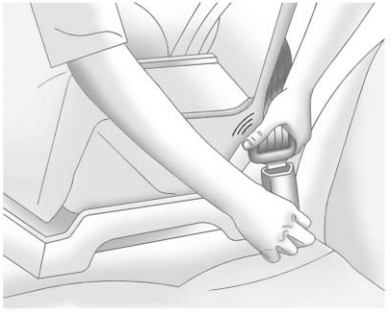
If the child restraint does not have the LATCH system, you will be using the safety belt to secure the child restraint in this position. Be sure to follow the instructions that came with the child restraint. Secure the child in the child restraint when and as the instructions say.

If more than one child restraint needs to be installed in the rear seat, be sure to read *Where to Put the Restraint on page 3-47*.

1. Put the child restraint on the seat.

 If the head restraint interferes with the proper installation of the child restraint, the head restraint may be removed. See “Head Restraint Removal and Reinstallation” under *Lower Anchors and Tethers for Children (LATCH System) on page 3-49*.

2. Pick up the latch plate, and run the lap and shoulder portions of the vehicle's safety belt through or around the restraint. The child restraint instructions will show you how.



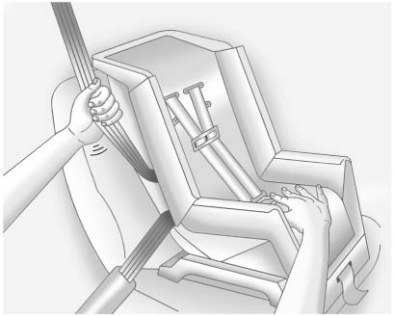
3. Push the latch plate into the buckle until it clicks. If the latch plate will not go fully into the buckle, check if the correct buckle is being used.

 Position the release button on the buckle so that the safety belt could be quickly unbuckled if necessary.



4. Pull the shoulder belt all the way out of the retractor to set the lock. When the retractor lock is set, the belt can be tightened but not pulled out of the retractor.

Information Provided by: DEALER E-PROCESS



5. To tighten the belt, push down on the child restraint, pull the shoulder portion of the belt to tighten the lap portion of the belt, and feed the shoulder belt back into the retractor. When installing a forward-facing child restraint, it may be helpful to use your knee to push down on the child restraint as you tighten the belt.

 Try to pull the belt out of the retractor to make sure the retractor is locked. If the retractor is not locked, repeat Steps 4 and 5.

6. If the child restraint has a top tether, follow the child restraint manufacturer's instructions regarding the use of the top tether. See *Lower Anchors and Tethers for Children (LATCH System) on page 3-49* for more information.

7. Before placing a child in the child restraint, make sure it is securely held in place. To check, grasp the child restraint at the safety belt path and attempt to move it side to side and back and forth. When the child restraint is properly installed, there should be no more than 2.5 cm (1 in) of movement.

To remove the child restraint, unbuckle the vehicle safety belt and let it return to the stowed position. If the top tether is attached to a top tether anchor, disconnect it. If the head restraint was removed, reinstall it before the seating position is used. See “Head Restraint Removal and Reinstallation” under *Lower Anchors and Tethers for Children (LATCH System) on page 3-49* for additional information on installing the head restraint properly.

Securing Child Restraints (Front Passenger Seat)

This vehicle has airbags. A rear seat is a safer place to secure a forward-facing child restraint. See *Where to Put the Restraint on page 3-47*.

In addition, the vehicle has a passenger sensing system which is designed to turn off the right front passenger frontal airbag and passenger knee airbag under certain conditions. See *Passenger Sensing System on page 3-33* and *Passenger Airbag Status Indicator on page 5-12* for more information, including important safety information.

Information Solutions DEALER E-PROCESS

A label on the sun visor says, “Never put a rear-facing child seat in the front.” This is because the risk to the rear-facing child is so great, if the airbag deploys.

⚠ WARNING

A child in a rear-facing child restraint can be seriously injured or killed if the right front passenger airbag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating airbag. A child in a forward-facing child restraint can be seriously injured or killed if the right front passenger airbag inflates and the passenger seat is in a forward position.

Even if the passenger sensing system has turned off the right front passenger frontal airbag, no system is fail-safe. No one can guarantee that an airbag will not

(Continued)

WARNING (Continued)

deploy under some unusual circumstance, even though it is turned off.

Secure rear-facing child restraints in a rear seat, even if the airbag is off. If you secure a forward-facing child restraint in the right front seat, always move the front passenger seat as far back as it will go. It is better to secure the child restraint in a rear seat.

See *Passenger Sensing System on page 3-33* for additional information.

If the child restraint has the LATCH system, see *Lower Anchors and Tethers for Children (LATCH System) on page 3-49* for how and where to install the child restraint using LATCH. If a child restraint is secured using a safety belt and it uses a top tether, see *Lower Anchors and Tethers for Children (LATCH System) on page 3-49* for top tether anchor locations.

Do not secure a child seat in a position without a top tether anchor if a national or local law requires that the top tether be anchored, or if the instructions that come with the child restraint say that the top strap must be anchored.

In Canada, the law requires that forward-facing child restraints have a top tether, and that the tether be attached.

Information Provided by: DEALER E-PROCESS

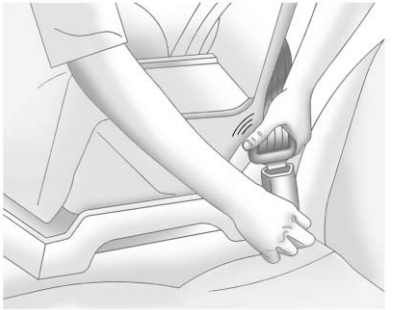
You will be using the lap-shoulder belt to secure the child restraint in this position. Follow the instructions that came with the child restraint.

1. Move the seat as far back as it will go before securing the forward-facing child restraint.

 When the passenger sensing system has turned off the right front passenger frontal airbag and passenger knee airbag, the off indicator on the passenger airbag status indicator should light and stay lit when you start the vehicle. See *Passenger Airbag Status Indicator on page 5-12*.

2. Put the child restraint on the seat.

3. Pick up the latch plate, and run the lap and shoulder portions of the vehicle's safety belt through or around the restraint. The child restraint instructions will show you how.



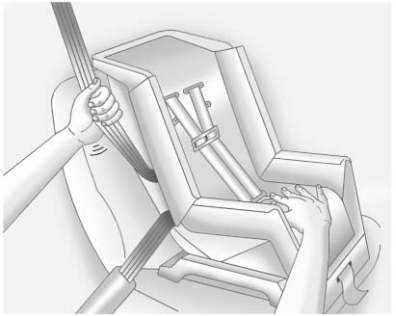
4. Push the latch plate into the buckle until it clicks.

 Position the release button on the buckle, so that the safety belt could be quickly unbuckled if necessary.



5. Pull the shoulder belt all the way out of the retractor to set the lock. When the retractor lock is set, the belt can be tightened but not pulled out of the retractor.

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6. To tighten the belt, push down on the child restraint, pull the shoulder portion of the belt to tighten the lap portion of the belt, and feed the shoulder belt back into the retractor. When installing a forward-facing child restraint, it may be helpful to use your knee to push down on the child restraint as you tighten the belt.

 Try to pull the belt out of the retractor to make sure the retractor is locked. If the retractor is not locked, repeat Steps 5 and 6.

7. Before placing a child in the child restraint, make sure it is securely held in place. To check, grasp the child restraint at the safety belt path and attempt to move it side-to-side and back-and-forth. When the child restraint is properly installed, there should be no more than 2.5 cm (1 in) of movement.

If the airbags are off, the off indicator in the passenger airbag status indicator will come on and stay on when the vehicle is started.

If a child restraint has been installed and the on indicator is lit, see “If the On Indicator is Lit for a Child Restraint” under *Passenger Sensing System on page 3-33* for more information.

To remove the child restraint, unbuckle the vehicle safety belt and let it return to the stowed position.

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✍ NOTES

Information Provided by
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Additional Storage Features
Cargo Tie Downs 4-2

Storage Compartments

Instrument Panel Storage



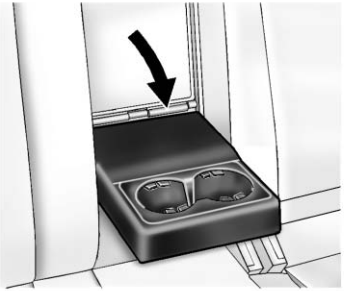
There may be a storage compartment on the instrument panel. Pull the handle to open.

Glove Box

Open the glove box by lifting up on the lever.

Cupholders

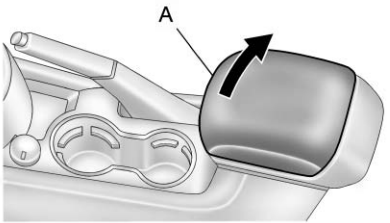
Two cupholders are in the center console.



Cupholders may be located in the second row seat armrest. To access, pull the armrest down.

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Center Console Storage



The center console storage has a tray and a main storage area. Pull up on the latch (A) to access.



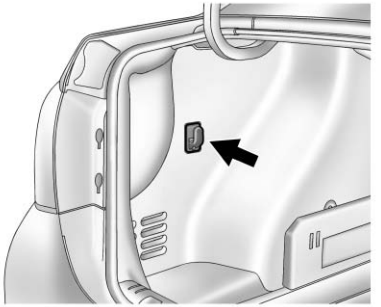
Pull up on the latch and slide the center console armrest to adjust the position. Return the armrest to the rear position to access the storage area.

There may be an auxiliary jack outlet and a USB port located in the center console.

See *Auxiliary Devices on page 7-20*.

Additional Storage Features

Cargo Tie Downs



On the driver side in the rear compartment is a retainer to hang light items on.

Information Provided by:
DEALER E-PROCESS

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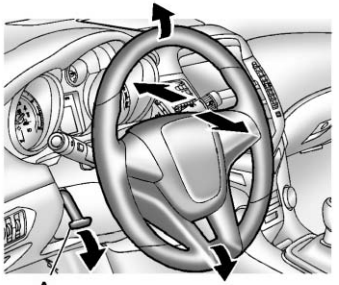
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Controls

Steering Wheel Adjustment

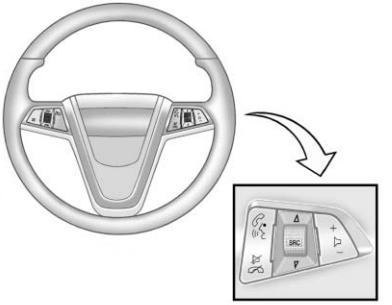


To adjust the steering wheel:

1. Pull the lever (A) down.
2. Move the steering wheel up or down.
3. Pull or push the steering wheel closer or away from you.
4. Push the lever (A) up to lock the steering wheel in place.

Do not adjust the steering wheel while driving.

Steering Wheel Controls



For vehicles with audio steering wheel controls, some audio controls can be adjusted at the steering wheel.

(Push to Talk): For vehicles with a Bluetooth®, OnStar®, or navigation system, press to interact with those systems. See *Bluetooth (Overview) on page 7-23* or *Bluetooth (Infotainment Controls)*

Information Provided by: DEALER E-PROCESS

on page 7-24 or *Bluetooth (Voice Recognition) on page 7-28*, the OnStar Owner's Guide, or the separate Navigation System Manual for more information.

(Mute/End Call): Press to silence the vehicle speakers only. Press again to turn the sound on. For vehicles with OnStar or Bluetooth systems, press to reject an incoming call, or end a current call.

SRC (Rotary Control): Press to select an audio source.

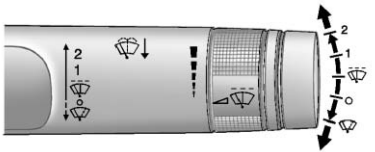
Toggle up or down to select the next or previous favorite radio station, CD, or MP3 track.

+ − (Volume): Press + to increase the volume. Press − to decrease the volume.

Horn

Press near the horn symbols or press on the steering wheel pad to sound the horn.

Windshield Wiper/Washer



The windshield wiper lever is on the side of the steering column. With the ignition in ACC/ACCESSORY or ON/RUN, move the windshield wiper lever to select the wiper speed.

2: Fast wipes.

1: Slow wipes.



(Adjustable Interval Wipes): Turn the band up for more frequent wipes or down for less frequent wipes.

(Off): Turns the windshield wipers off.

(Mist): Single wipe, briefly move the wiper down. Several wipes, hold the wiper lever down.

Clear ice and snow from the wiper blades before using them. If they are frozen to the windshield, carefully loosen or thaw them. Damaged wiper blades should be replaced. See *Wiper Blade Replacement on page 10-29*.

Heavy snow or ice can overload the wipers. A circuit breaker stops them until the motor cools.

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Wipe Parking

If the ignition is turned to LOCK/OFF while the wipers are on 1, 2, or , they will immediately stop.

If the windshield wiper lever is then moved to OFF before the driver door is opened, or within 10 minutes, the wipers will restart and move to the base of the windshield.

If the ignition is turned to LOCK/OFF during a windshield wash, the wipers will stop when they reach the base of the windshield.

Windshield Washer

Pull the windshield wiper lever toward you to spray windshield washer fluid and activate the wipers.

The wipers will continue until the lever is released or the maximum wash time is reached.

When the windshield wiper lever is released, additional wipes may occur depending on how long the windshield washer had been activated. See *Washer Fluid on page 10-22* for information on filling the windshield washer fluid reservoir.

⚠ WARNING

In freezing weather, do not use your washer until the windshield is warmed. Otherwise the washer fluid can form ice on the windshield, blocking your vision.

Compass

The vehicle may have a compass display in the Driver Information Center (DIC). The compass receives its heading and other information from the Global Positioning System (GPS) antenna, StabiliTrak, and vehicle speed information.

Avoid covering the GPS antenna located on the roof, for long periods of time with objects that may interfere with the antenna's ability to receive a satellite signal. The compass system is designed to operate for a certain number of miles or degrees of turn before needing a signal from the GPS satellites. When the compass display shows CAL, drive the vehicle for a short distance in an open area where it can receive a GPS signal. The compass system will automatically determine when the GPS signal is restored and provide a heading again. See *Compass Messages on page 5-29*

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for more information on the messages that may be displayed for the compass.

Clock

The infotainment system controls are used to access the time and date settings through the menu system. See *Operation on page 7-6* for information about how to use the menu system. For vehicles with a Navigation System, see the separate Navigation System Manual.

Setting the Time

1. Press the CONFIG button and select Time Settings.
2. Select Set Time.
3. Turn the MENU or MENU/SEL knob to adjust the highlighted number.
4. Press the MENU or MENU/SEL knob to select the next number.
5. To save the time and return to the Time Settings menu, press the BACK button at any time or press the MENU or MENU/SEL knob after adjusting the minutes.

Setting the 12/24 Hour Format

1. Press the CONFIG button and select Time Settings.
2. Highlight 12/24 Hour Format.
3. Press the MENU or MENU/SEL knob to select the 12 hour or 24 hour display format.

Power Outlets

The accessory power outlets can be used to plug in electrical equipment, such as a cell phone or MP3 player.

There is one accessory power outlet located on the center floor console and one on the rear of the center floor console. These outlets are powered when the key is in ON/RUN or ACC/ACCESSORY, or until the driver door is opened within 10 minutes of turning off the vehicle. See *Retained Accessory Power (RAP) on page 9-21*.

Remove the cover to access and replace when not in use.

Notice: **Leaving electrical equipment plugged in for an extended period of time while the vehicle is off will drain the battery. Always unplug electrical equipment when not in use and do not plug in equipment that exceeds the maximum 20 ampere rating.**

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Certain electrical accessories may not be compatible with the accessory power outlet and could overload vehicle or adapter fuses. If a problem is experienced, see your dealer.

When adding electrical equipment, be sure to follow the installation instructions included with the equipment. See *Add-On Electrical Equipment on page 9-52*.

Notice: **Hanging heavy equipment from the power outlet can cause damage not covered by the vehicle warranty. The power outlets are designed for accessory power plugs only, such as cell phone charge cords.**

Cigarette Lighter

For vehicles with a cigarette lighter, it is located on the front floor console.

To activate the cigarette lighter, push it into the heating element and let go. When the lighter is ready it will pop back out.

Notice: **Holding a cigarette lighter in while it is heating does not let the lighter back away from the heating element when it is hot. Damage from overheating can occur to the lighter or heating element, or a fuse could be blown. Do not hold a cigarette lighter in while it is heating.**

Ashtrays

For vehicles with a removable ashtray, the ashtray can be placed into the front console cupholders.

To open the ashtray, lift the lid of the ashtray. After using, close the lid.

To empty the ashtray for cleaning, slightly turn the upper part of the ashtray counterclockwise and remove it.

Notice: **If papers, pins, or other flammable items are put in the ashtray, hot cigarettes or other smoking materials could ignite them and possibly damage the vehicle. Never put flammable items in the ashtray.**

Information Provided by:
DEALER E-PROCESS

Warning Lights, Gauges, and Indicators

Warning lights and gauges can signal that something is wrong before it becomes serious enough to cause an expensive repair or replacement. Paying attention to the warning lights and gauges could prevent injury.

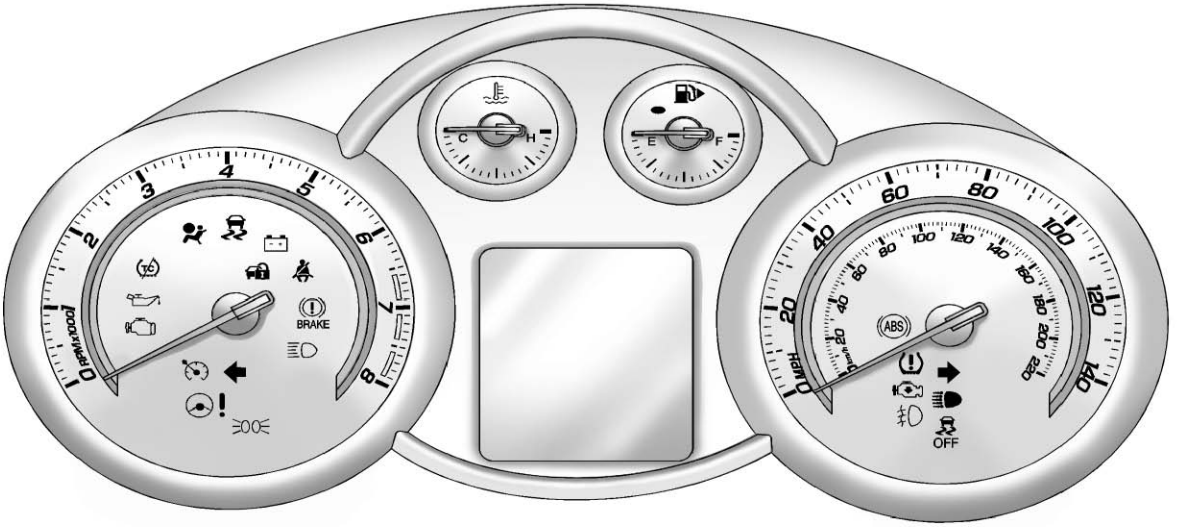
Warning lights come on when there could be a problem with a vehicle function. Some warning lights come on briefly when the engine is started to indicate they are working.

Gauges can indicate when there could be a problem with a vehicle function. Often gauges and warning lights work together to indicate a problem with the vehicle.

When one of the warning lights comes on and stays on while driving, or when one of the gauges shows there may be a problem, check the section that explains what to do. Follow this manual's advice. Waiting to do repairs can be costly and even dangerous.

Information Provided by:
DEALER E-PROCESS

Instrument Cluster



English Automatic Transmission Cluster Shown, Metric Similar

Information Provided by:
DEALER E-PROCESS

Speedometer

The speedometer shows the vehicle's speed in either kilometers per hour (km/h) or miles per hour (mph).

Odometer

The odometer shows how far the vehicle has been driven, in either kilometers or miles.

This vehicle has a tamper-resistant odometer. The digital odometer will read 999,999 if it is turned back.

If the vehicle needs a new odometer installed, it must be set to the mileage total of the old odometer. If that is not possible, then it must be set at zero and a label must be put on the driver door to show the old mileage reading when the new odometer was installed.

Trip Odometer

The trip odometer can show how far the vehicle has been driven since the trip odometer was last reset.

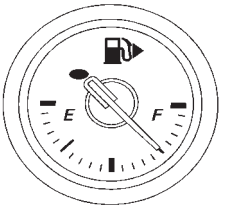
The trip odometer is accessed and reset through the Driver Information Center (DIC). See *Driver Information Center (DIC) on page 5-24* for more information.

Tachometer

The tachometer displays the engine speed in revolutions per minute (rpm).

Notice: **If the engine is operated with the tachometer in the shaded warning area, the vehicle could be damaged, and the damages would not be covered by the vehicle warranty. Do not operate the engine with the tachometer in the shaded warning area.**

Fuel Gauge



When the ignition is on, the fuel gauge tells you about how much fuel you have left in your tank.

An arrow on the fuel gauge indicates the side of the vehicle the fuel door is on.

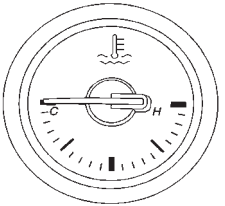
A FUEL LEVEL LOW message may appear in the Driver Information Center (DIC) and a single chime sounds. See *Fuel System Messages on page 5-31* for more information.

Information Provided by:
DEALER E-PROCESS

Here are four things that some owners ask about. None of these show a problem with your fuel gauge:

- At the service station, the fuel pump shuts off before the gauge reads full.
- It takes a little more or less fuel to fill up than the gauge indicated. For example, the gauge may have indicated the tank was half full, but it actually took a little more or less than half the tank's capacity to fill the tank.
- The gauge moves a little while turning a corner or speeding up.
- The gauge takes a few seconds to stabilize after the ignition is turned on, and will go back to empty when the ignition is turned off.

Engine Coolant Temperature Gauge



This gauge shows the engine coolant temperature.

If the indicator needle moves to the hot side of the gauge toward the H or shaded area, the engine is too hot.

If the vehicle has been operated under normal driving conditions, pull off the road, stop the vehicle, and turn off the engine as soon as possible.

Safety Belt Reminders

Driver Safety Belt Reminder Light

When the engine is started, a chime sounds for several seconds to remind a driver to fasten the safety belt, unless the driver safety belt is already buckled.



The safety belt reminder light comes on for several seconds, then flashes for several more.

This chime and light sequence are repeated if the driver remains unbuckled and the vehicle is in motion. If the driver safety belt is already buckled, neither the chime nor the light comes on.

Information Provided by:
DEALER E-PROCESS

Passenger Safety Belt Reminder Light

Several seconds after the engine is started, a chime sounds for several seconds to remind the front passenger to buckle their safety belt. The passenger safety belt light comes on and flashes for several seconds.



This chime and light sequence is repeated if the passenger remains unbuckled and the vehicle is in motion.

If the passenger safety belt is buckled, neither the chime nor the light comes on.

The front passenger safety belt warning light and chime may turn on if an object is put on the seat such as a briefcase, handbag, grocery bag, laptop, or other electronic device. To turn off the warning light and/or chime, remove the object from the seat or buckle the safety belt.

Airbag Readiness Light

This light shows if there is an electrical problem. The system check includes the airbag sensor, the pretensioners, the airbag modules, the wiring, and the crash sensing and diagnostic module. For more information on the airbag system, see *Airbag System on page 3-25*.



The airbag readiness light comes on and stays on for several seconds when the vehicle is started. Then the light goes out.

⚠ WARNING

If the airbag readiness light stays on after the vehicle is started or comes on while driving, it means the airbag system might not be working properly. The airbags in the vehicle might not inflate in a crash, or they could even inflate without a crash. To help avoid injury, have the vehicle serviced right away.

Information Provided by: DEALER E-PROCESS

Passenger Airbag Status Indicator

The vehicle has a passenger sensing system. See *Passenger Sensing System on page 3-33* for important safety information. The instrument panel has a passenger airbag status indicator.



United States



Canada

When the vehicle is started, the passenger airbag status indicator will light ON and OFF, or the symbol for on and off, for several seconds as a system check. If you are using remote start, if equipped, to start the vehicle from a distance you may not see the system check. Then, after several seconds, the status indicator will light either ON or OFF, or either the on or off symbol to let you know the status of the right front passenger frontal airbag and passenger knee airbag.

If the word ON or the on symbol is lit on the passenger airbag status indicator, it means that the right front passenger frontal airbag and passenger knee airbag are enabled (may inflate).

If the word OFF or the off symbol is lit on the passenger airbag status indicator, it means that the passenger sensing system has turned off the right front passenger frontal airbag and passenger knee airbag.

If, after several seconds, both status indicator lights remain on, or if there are no lights at all, there may be a problem with the lights or the passenger sensing system. See your dealer for service.

⚠ WARNING

If the airbag readiness light ever comes on and stays on, it means that something may be wrong with the airbag system. To help avoid injury to yourself or others, have the vehicle serviced right away. See *Airbag Readiness Light on page 5-11* for more information, including important safety information.

Information Provided by: DEALER E-PROCESS

Charging System Light



The charging system light comes on briefly when the ignition is turned on, but the engine is not running, as a check to show the light is working. The light turns off when the engine is started. If it does not, have the vehicle serviced by your dealer.

If the light stays on, or comes on while driving, there could be a problem with the electrical charging system. Have it checked by your dealer. Driving while this light is on could drain the battery.

If a short distance must be driven with the light on, be sure to turn off all accessories, such as the radio and air conditioner.

Malfunction Indicator Lamp

A computer system called OBD II (On-Board Diagnostics-Second Generation) monitors operation of the fuel, ignition, and emission control systems. It ensures that emissions are at acceptable levels for the life of the vehicle, helping to produce a cleaner environment.



This light should come on when the ignition is on, but the engine is not running, as a check to show it is working. If it does not, have the vehicle serviced by your dealer.

If the Malfunction Indicator Lamp comes on and stays on while the engine is running, this indicates that there is an OBD II problem and service is required.

Information Provided by:
DEALER E-PROCESS

Malfunctions often are indicated by the system before any problem is apparent. Being aware of the light can prevent more serious damage to the vehicle. This system assists the service technician in correctly diagnosing any malfunction.

Notice: **If the vehicle is continually driven with this light on, after a while, the emission controls might not work as well, the vehicle fuel economy might not be as good, and the engine might not run as smoothly. This could lead to costly repairs that might not be covered by the vehicle warranty.**

Notice: **Modifications made to the engine, transmission, exhaust, intake, or fuel system of the vehicle or the replacement of the original tires with other than those of the same Tire Performance Criteria (TPC) can affect the vehicle's emission controls and can cause this light to come on. Modifications to these systems could lead to costly repairs not covered by the vehicle warranty. This could also result in a failure to pass a required Emission Inspection/ Maintenance test. See *Accessories and Modifications on page 10-3*.**

This light comes on during a malfunction in one of two ways:

Light Flashing: A misfire condition has been detected. A misfire increases vehicle emissions and could damage the emission control system on the vehicle. Diagnosis and service might be required.

To prevent more serious damage to the vehicle:

- Reduce vehicle speed.
- Avoid hard accelerations.
- Avoid steep uphill grades.
- If towing a trailer, reduce the amount of cargo being hauled as soon as it is possible.

If the light continues to flash, when it is safe to do so, stop the vehicle. Find a safe place to park the vehicle. Turn the vehicle off, wait at least 10 seconds, and restart the engine. If the light is still flashing, follow the previous steps and see your dealer for service as soon as possible.

Light On Steady: An emission control system malfunction has been detected on the vehicle. Diagnosis and service might be required.

The following may correct an emissions system malfunction:

- Make sure the fuel cap is fully installed. See *Filling the Tank on page 9-43*. The diagnostic system can determine if the fuel cap has been left off or improperly installed. A loose or missing fuel cap allows fuel to evaporate into the atmosphere. A few driving trips with the cap properly installed should turn the light off.

Information Provided by: DEALER E-PROCESS

- Make sure the electrical system is not wet. The system could be wet if the vehicle was driven through a deep puddle of water. The condition is usually corrected when the electrical system dries out. A few driving trips should turn the light off.
- Make sure to fuel the vehicle with quality fuel. Poor fuel quality causes the engine not to run as efficiently as designed and can cause: stalling after start-up, stalling when the vehicle is changed into gear, misfiring, hesitation on acceleration, or stumbling on acceleration. These conditions might go away once the engine is warmed up.

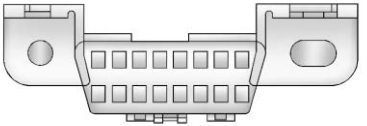
 If one or more of these conditions occurs, change the fuel brand used. It will require at least one full tank of the proper fuel to turn the light off.

 See *Recommended Fuel on page 9-40*.

If none of the above have made the light turn off, your dealer can check the vehicle. The dealer has the proper test equipment and diagnostic tools to fix any mechanical or electrical problems that might have developed.

Emissions Inspection and Maintenance Programs

Some state/provincial and local governments may have programs to inspect the on-vehicle emission control equipment. For the inspection, the emission system test equipment is connected to the vehicle's Data Link Connector (DLC).



The DLC is under the instrument panel to the left of the steering wheel. See your dealer if assistance is needed.

The vehicle may not pass inspection if:

- The malfunction indicator lamp is on with the engine running, or if the light does not come on when the ignition is turned to ON/RUN while the engine is off.

Information Provided by: DEALER E-PROCESS

- The critical emission control systems have not been completely diagnosed by the system. This can happen if the battery has recently been replaced or if the battery has run down. The diagnostic system evaluates critical emission control systems during normal driving. This can take several days of routine driving. If this has been done and the vehicle still does not pass the inspection, your dealer can prepare the vehicle for inspection.

Service Vehicle Soon Light



For vehicles with this light, it comes on if a condition exists that may require the vehicle to be taken in for service.

Vehicles not equipped with a light, display a SERVICE VEHICLE SOON message.

See *Service Vehicle Messages on page 5-32* for more information.

If the light comes on, take the vehicle to your dealer for service as soon as possible.

Brake System Warning Light

The vehicle brake system consists of two hydraulic circuits. If one circuit is not working, the remaining circuit can still work to stop the vehicle. For normal braking performance, both circuits need to be working.

If the warning light comes on, there is a brake problem. Have the brake system inspected right away.



English



Metric

The Brake System Warning Light should come on briefly as the engine is started. If it does not come on, have the vehicle serviced by your dealer.

Information Provided by:
DEALER E-PROCESS

⚠ WARNING

The brake system might not be working properly if the brake system warning light is on. Driving with the brake system warning light on can lead to a crash. If the light is still on after the vehicle has been pulled off the road and carefully stopped, have the vehicle towed for service.

If the light comes on while driving, a chime sounds. Pull off the road and stop. The pedal might be harder to push or go closer to the floor. It might also take longer to stop. If the light is still on, have the vehicle towed for service. See *Towing the Vehicle on page 10-87*.

Antilock Brake System (ABS) Warning Light



The Antilock Brake System (ABS) light comes on briefly when the engine is started.

If the light does not come on, have it fixed so it will be ready to warn if there is a problem.

If the ABS light comes on and stays on while driving, stop as soon as possible and turn the ignition off. Start the engine again to reset the system. If the light stays on after driving at a speed above 20 km/h (13 mph), see your dealer for service. A chime may also sound when the light comes on steady.

If the regular brake system warning light is not on, the vehicle still has brakes, but not antilock brakes. If the regular brake system warning light is also on, the vehicle does not have antilock brakes and there is a problem with the regular brakes. See *Brake System Warning Light on page 5-16*.

See *Brake System Messages on page 5-29* for all brake-related DIC messages.

Information Provided by: DEALER E-PROCESS

Up-Shift Light



The vehicle may have an up-shift light. It shows when to shift to the next higher gear for best fuel economy.

See *Manual Transmission on page 9-29* for more information.

Power Steering Warning Light



This light comes on briefly when the ignition is turned to ON/RUN as a check to show it is working.

If it does not come on have the vehicle serviced by your dealer.

If this light stays on, or comes on while driving, the system may not be working. If this happens, see your dealer for service.

Ultrasonic Parking Sensor Light



For vehicles equipped with this light, it comes on briefly when the ignition is turned to ON/RUN and then turns off. Vehicles not equipped with the light display a SERVICE PARK ASSIST message in the DIC. See *Object Detection System Messages on page 5-32* for more information.

This light comes on to indicate that there is a malfunction in the system. See your dealer for service.

See *Ultrasonic Parking Assist on page 9-38* and *Driver Information Center (DIC) on page 5-24* for more information.

Information Provided by:
DEALER E-PROCESS

Traction Off Light



This light comes on briefly while starting the engine. If it does not, have the vehicle serviced by your dealer. If the system is working normally, the indicator light then turns off.

The traction off light comes on when the Traction Control System (TCS) has been turned off by pressing and releasing the traction control button.

This light and the StabiliTrak Off light come on when StabiliTrak is turned off.

If the Traction Control System (TCS) is off, wheelspin is not limited. Adjust driving accordingly.

See *Traction Control System (TCS) on page 9-33* and *StabiliTrak® System on page 9-34* for more information.

StabiliTrak® OFF Light



This light comes on briefly while starting the engine. If it does not, have the vehicle serviced by your dealer.

This light comes on when the StabiliTrak system is turned off. If StabiliTrak is off, TCS is also off.

If the Traction Control System (TCS) is off, the system does not assist in controlling the vehicle. Turn on the TCS and the StabiliTrak systems and the warning light turns off.

See *Traction Control System (TCS) on page 9-33* and *StabiliTrak® System on page 9-34* for more information

Traction Control System (TCS)/StabiliTrak® Light



The StabiliTrak system or the Traction Control System (TCS) indicator/warning light come on briefly when the engine is started.

If the light does not come on, have the vehicle serviced by the dealer. If the system is working normally, the indicator light turns off.

Information Provided by:
DEALER E-PROCESS

If the light is on and not flashing, the TCS, and potentially the StabiliTrak system have been disabled. A DIC message may display. Check the DIC messages to determine which feature(s) is no longer functioning and whether the vehicle requires service.

If the indicator/warning light is on and flashing, the TCS and/or the StabiliTrak system is actively working.

See *StabiliTrak® System on page 9-34* and *Traction Control System (TCS) on page 9-33* for more information.

Tire Pressure Light



For vehicles with the Tire Pressure Monitor System (TPMS), this light comes on briefly when the engine is started. It provides information about tire pressures and the TPMS.

When the Light is On Steady

This indicates that one or more of the tires are significantly underinflated.

A Driver Information Center (DIC) tire pressure message may also display. See *Vehicle Messages (Canada Base Level) on page 5-27* or *Vehicle Messages (Canada Uplevel and United States) on page 5-28* for more information. Stop as soon as possible, and inflate the tires to the pressure value shown on the Tire and Loading Information label. See *Tire Pressure on page 10-50* for more information.

When the Light Flashes First and Then is On Steady

This indicates that there may be a problem with the Tire Pressure Monitor System. The light flashes for about a minute and stays on steady for the remainder of the ignition cycle. This sequence repeats with every ignition cycle. See *Tire Pressure Monitor Operation on page 10-53* for more information.

Information Provided by:
DEALER E-PROCESS

Engine Oil Pressure Light

⚠ WARNING

Do not keep driving if the oil pressure is low. The engine can become so hot that it catches fire. Someone could be burned. Check the oil as soon as possible and have the vehicle serviced.

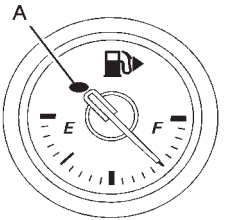
Notice: **Lack of proper engine oil maintenance can damage the engine. The repairs would not be covered by the vehicle warranty. Always follow the maintenance schedule for changing engine oil.**



The oil pressure light should come on briefly as the engine is started. If it does not come on have the vehicle serviced by your dealer.

If the light comes on and stays on, it means that oil is not flowing through the engine properly. The vehicle could be low on oil and might have some other system problem. See your dealer.

Low Fuel Warning Light



This light comes on for a few seconds when the ignition is turned on as a check to indicate it is working. If it does not come on, have it fixed.

The low fuel warning light (A) comes on and a chime sounds when the vehicle is low on fuel. The light turns off when fuel is added to the fuel tank.

Information Provided by: DEALER E-PROCESS

For vehicles with a Driver Information Center (DIC), see *Driver Information Center (DIC) on page 5-24* for more information.

Security Light



The immobilizer light should come on briefly as the engine is started. If it does not come on have the vehicle serviced by your dealer. If the system is working normally the indicator light turns off.

This light comes on when the ignition is turned from LOCK/OFF to ON/RUN and stays on if the vehicle is immobilized. This happens when an incorrect key or an unprogrammed key is used to start the vehicle.

If the light stays on and the engine does not start, there could be a problem with the theft-deterrent system. See *Immobilizer Operation on page 2-10* for more information.

Reduced Engine Power Light



The reduced engine power light should come on briefly as the engine is started. If it does not come on have the vehicle serviced by your dealer.

This light, along with the service engine soon light, displays when a noticeable reduction in the vehicle's performance occurs. Stop the vehicle and turn off the ignition. Wait for 10 seconds and restart the vehicle. This might correct the condition.

The vehicle can be driven at a reduced speed when the reduced engine power light is on but acceleration and speed might be reduced. The performance could be reduced until the next time the vehicle is driven. If this light stays on, see your dealer as soon as possible for diagnosis and repair.

High-Beam On Light



The high-beam on light comes on when the high-beam headlamps are in use.

See *Headlamp High/Low-Beam Changer on page 6-2* for more information.

Information Provided by: DEALER E-PROCESS

Daytime Running Lamps (DRL) Indicator Light



This light turns on whenever the Daytime Running Lamps are in use.

See *Daytime Running Lamps (DRL) on page 6-2* for more information.

Front Fog Lamp Light



For vehicles with front fog lamps, this light comes on when the front fog lamps are in use.

The light goes out when the front fog lamps are turned off. See *Front Fog Lamps on page 6-4* for more information.

Lamps On Reminder



The lamps on reminder light comes on when the lights are in use.

Cruise Control Light



The cruise control light is white whenever the cruise control is set, and turns green when the cruise control is active.

The light turns off when the cruise control is turned off. See *Cruise Control on page 9-36* for more information.

Information Provided by:
DEALER E-PROCESS

Door Ajar Light



For vehicles equipped with this light, it comes on when a door is open or not secured. Vehicles not equipped with a light display a DIC message. See *Door Ajar Messages on page 5-29* for more information.

Information Displays

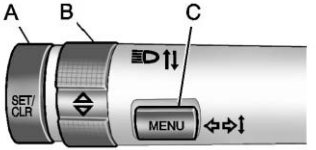
Driver Information Center (DIC)

The vehicle may have a Driver Information Center (DIC). The DIC displays information about your vehicle. It also displays warning messages if a system problem is detected. See *Vehicle Messages (Canada Base Level) on page 5-27* or *Vehicle Messages (Canada Uplevel and United States) on page 5-28* for more information. All messages appear in the DIC display located in the center of the instrument panel cluster.

DIC Operation and Displays

The DIC has different displays which can be accessed by using the DIC buttons located on the turn signal lever located on the left side of the steering wheel. The DIC displays trip, fuel, and warning messages if a system problem is detected.

DIC Buttons



A. **SET/CLR:** Press to set or clear the menu item displayed.

B. △ ▽ **(Thumbwheel):** Use to scroll through the menus. A marker will move across the bottom of the page as you scroll.

C. **MENU:** Press to display the Trip/Fuel menu and the Vehicle Information menu. This button is also used to return to or exit the last screen displayed on the DIC.

Information Provided by:
DEALER E-PROCESS

Trip/Fuel Menu Items

Press MENU on the turn signal lever until Trip/Fuel Information menu displays. Use △ ▽ to scroll through the following menu items:

- Trip 1 or Trip 2
- Fuel Range
- Average Fuel Economy or Average Fuel Economy and Instantaneous Fuel Economy
- Average Speed
- Fuel Used
- Digital Speed
- Navigation
- Blank Display

Trip 1 or Trip 2

This displays the current distance traveled, in either kilometers (km) or miles (mi), from the last reset for the trip odometer. The trip odometer can be reset to zero by pressing and holding the SET/CLR button while the trip odometer display is showing.

Fuel Range

This displays the approximate distance the vehicle can be driven without refueling. The fuel range estimate is based on an average of the vehicle's fuel economy over recent driving history and the amount of fuel remaining in the fuel tank. Fuel range cannot be reset.

Average Fuel Economy or Average Fuel Economy and Instantaneous Fuel Economy

The Average Fuel Economy display shows the approximate average liters per 100 kilometers (L/100 km) or miles per gallon (mpg). This number is based on the number of L/100 km (mpg) recorded since the last time this menu item was reset. Reset the average consumption by pressing SET/CLR when it is displayed.

The Instantaneous Fuel Economy display shows the current fuel economy in liters per 100 kilometers (L/100 km) or miles per gallon (mpg). This number reflects only the fuel economy that the vehicle has right now and changes frequently as driving conditions change. Unlike average economy, this display cannot be reset.

Average Speed

This displays the average speed of the vehicle in kilometers per hour (km/h) or miles per hour (mph). This average is based on the various vehicle speeds recorded since the last reset. Reset the average speed by pressing SET/CLR when it is displayed.

Information Provided by: DEALER E-PROCESS

Fuel Used

This display shows the approximate liters (L) or gallons (gal) of fuel that have been used since last reset. The fuel used can be reset by pressing the SET/CLR button while the Fuel Used display is showing.

Digital Speed

The speedometer shows how fast the vehicle is moving in either kilometers per hour (km/h) or miles per hour (mph). The speedometer cannot be reset.

Navigation

This display is used for the OnStar or Navigation System Turn-by-Turn guidance. See The OnStar Owner's Guide or the Navigation manual, if the vehicle has navigation, for more information.

Blank Display

This display shows no information.

Vehicle Information Menu Items

Press MENU on the turn signal lever until Vehicle Information menu is displayed. Use △ ▽ to scroll through the following menu items:

- Units
- Tire Pressure
- Remaining Oil Life
- Battery Voltage
- Blank Display

Units

Move △ ▽ to change between Metric or US when the Unit display is active. Press SET/CLR to confirm the setting. This will change the displays on the cluster and DIC to either metric or English (US) measurements.

Tire Pressure

The display will show a vehicle with the approximate pressures of all four tires. Tire pressure is displayed in either kilopascal (kPa) or in pounds per square inch (psi). See *Tire Pressure Monitor System on page 10-52* and *Tire Pressure Monitor Operation on page 10-53* for more information.

Remaining Oil Life

This display shows an estimate of the oil's remaining useful life. If REMAINING OIL LIFE 99% is displayed, that means 99% of the current oil life remains.

Information Provided by: DEALER E-PROCESS

When the remaining oil life is low, the CHANGE ENGINE OIL SOON message will appear on the display. See *Engine Oil Messages on page 5-30*. The oil should be changed as soon as possible. See *Engine Oil on page 10-9*. In addition to the engine oil life system monitoring the oil life, additional maintenance is recommended in the Maintenance Schedule in this manual. See *Scheduled Maintenance on page 11-2* for more information.

Remember, the Oil Life display must be reset after each oil change. It will not reset itself. Also, be careful not to reset the Oil Life display accidentally at any time other than when the oil has just been changed. It cannot be reset accurately until the next oil change. To reset the engine oil life system press the SET button while the Oil Life display is active. See *Engine Oil Life System on page 10-12*.

Battery Voltage

This display, available on some vehicles, shows the current battery voltage. If the voltage is in the normal range, the value will display. For example, the display may read Battery Voltage 15.0 Volts. The vehicle's charging system regulates voltage based on the state of the battery. The battery voltage can fluctuate while viewing this information on the DIC. This is normal. See *Charging System Light on page 5-13* for more information. If there is a problem with the battery charging system, the DIC will display a message. See *Battery Voltage and Charging Messages on page 5-28*.

Blank Display

This display shows no information.

Vehicle Messages

Vehicle Messages (Canada Base Level)

DIC messages display when the status of the vehicle has changed and action may be needed to correct the condition. Multiple messages appear one after another.

Press any of the DIC buttons on the turn signal lever to acknowledge and clear them from the display. More urgent messages cannot be cleared from the DIC display. All messages should be taken seriously. Clearing messages will not correct the problem.

Information Provided by: DEALER E-PROCESS

On the Canadian base level cluster, vehicle messages appear as code numbers.

25: Left front turn indicator failure

26: Left rear turn indicator failure

27: Right front turn indicator failure

28: Right rear turn indicator failure

35: Replace battery in radio remote control

53: Tighten gas cap

68: Service power steering

75: Service air conditioner

82: Change engine oil soon

84: Engine power is reduced

95: Service airbag

Vehicle Messages (Canada Uplevel and United States)

DIC messages display when the status of the vehicle has changed and action may be needed to correct the condition. Multiple messages appear one after another.

Press any of the DIC buttons on the turn signal lever to acknowledge and clear them from the display. More urgent messages cannot be cleared from the DIC display. All messages should be taken seriously. Clearing messages will not correct the problem.

On the Canadian uplevel cluster and on vehicles sold in the United States, vehicle messages are displayed as text. The messages and information about them follow.

Battery Voltage and Charging Messages

BATTERY SAVER ACTIVE

This message displays when the vehicle has detected that the battery voltage is dropping beyond a reasonable point. The battery saver system starts reducing certain features of the vehicle that you may be able to notice. At the point that features are disabled, this message is displayed. It means that the vehicle is trying to save the charge in the battery. Turn off unnecessary accessories to allow the battery to recharge.

LOW BATTERY

This message is displayed when the battery voltage is low. See *Battery on page 10-26* for more information.

Information Provided by:
DEALER E-PROCESS

SERVICE BATTERY CHARGING SYSTEM

This message is displayed when there is a fault in the battery charging system. Take the vehicle to your dealer for service.

Brake System Messages

BRAKE FLUID LOW

This message is displayed when the brake fluid level is low. See *Brake Fluid on page 10-24*.

RELEASE PARKING BRAKE

This message is displayed as a reminder that the parking brake is on. Release it before you attempt to drive.

Compass Messages

CAL

This message is displayed when the compass needs to be calibrated. See *Compass on page 5-4*.

– –

Two dashes will be displayed if the compass needs service. See your dealer for service.

Cruise Control Messages

APPLY BRAKE BEFORE CRUISE

If this message displays when attempting to activate cruise control, apply the brake pedal and try again.

CRUISE SET TO XXX

This message displays when the cruise control is set and shows the speed it was set to. See *Cruise Control on page 9-36* for more information.

Door Ajar Messages

DOOR(S) OPEN

A vehicle symbol will be displayed on the DIC showing which door is open along with this message. Close the door completely.

HOOD OPEN

This message will display when the hood is open. Close the hood completely.

TRUNK OPEN

This message will display when the trunk is open. Close the trunk completely.

Information Provided by: DEALER E-PROCESS

Engine Cooling System Messages

A/C OFF DUE TO HIGH ENGINE TEMP

This message displays when the engine coolant becomes hotter than the normal operating temperature. To avoid added strain on a hot engine, the air conditioning compressor automatically turns off. When the coolant temperature returns to normal, the air conditioning compressor turns back on. You can continue to drive the vehicle.

If this message continues to appear, have the system repaired by your dealer as soon as possible to avoid damage to the engine.

ENGINE OVERHEATED — IDLE ENGINE

This message displays when the engine coolant temperature is too hot. Stop and allow the vehicle to idle until it cools down.

ENGINE OVERHEATED — STOP ENGINE

This message displays and a continuous chime sounds if the engine cooling system reaches unsafe temperatures for operation. Stop and turn off the vehicle as soon as it is safe to do so to avoid severe damage. This message clears when the engine has cooled to a safe operating temperature.

HIGH COOLANT TEMPERATURE

This message displays if the coolant temperature is hot. See *Engine Overheating on page 10-20*.

Engine Oil Messages

CHANGE ENGINE OIL SOON

This message displays when the engine oil needs to be changed. When you change the engine oil, be sure to reset the Oil Life System. See *Engine Oil Life System on page 10-12* and *Driver Information Center (DIC) on page 5-24* for information on how to reset the system. See *Engine Oil on page 10-9* and *Scheduled Maintenance on page 11-2* for more information.

OIL PRESSURE LOW — STOP ENGINE

This message displays if low oil pressure levels occur. Stop the vehicle as soon as safely possible and do not operate it until the cause of the low oil pressure has been corrected. Check the oil as soon as possible and have the vehicle serviced by your dealer.

Information Provided by: DEALER E-PROCESS

Engine Power Messages

ENGINE POWER IS REDUCED

This message displays when the vehicle's engine power is reduced. Reduced engine power can affect the vehicle's ability to accelerate. If this message is on, but there is no reduction in performance, proceed to your destination. The performance may be reduced the next time the vehicle is driven. The vehicle may be driven at a reduced speed while this message is on, but maximum acceleration and speed may be reduced. Anytime this message stays on, the vehicle should be taken to your dealer for service as soon as possible.

Fuel System Messages

FUEL LEVEL LOW

This message displays when the vehicle is low on fuel. Refuel as soon as possible.

TIGHTEN GAS CAP

This message displays when the fuel cap is not on tight. Tighten the fuel cap.

Key and Lock Messages

REPLACE BATTERY IN REMOTE KEY

This message displays when the battery in the Remote Keyless Entry (RKE) transmitter needs to be replaced.

Lamp Messages

AUTOMATIC LIGHT CONTROL ON

This message is displayed when the automatic light control has been turned on. See *Automatic Headlamp System on page 6-3*.

AUTOMATIC LIGHT CONTROL OFF

This message is displayed when the automatic light control has been turned off. See *Automatic Headlamp System on page 6-3*.

XXX TURN INDICATOR FAILURE

When one of the turn signals is out, this message displays to show which bulb needs to be replaced. See *Bulb Replacement on page 10-30* and *Replacement Bulbs on page 10-36* for more information on the turn signal bulb replacement.

TURN SIGNAL ON

This message is displayed if the turn signal has been left on. Turn off the turn signal.

Information Provided by: DEALER E-PROCESS

Object Detection System Messages

PARK ASSIST OFF

This message is displayed when the park assist system has been turned off. See *Ultrasonic Parking Assist on page 9-38*.

SERVICE PARK ASSIST

This message is displayed if there is a problem with the park assist system. Take the vehicle to your dealer for service.

Ride Control System Messages

SERVICE TRACTION CONTROL

This message displays when there is a problem with the Traction Control System (TCS). See *Traction Control System (TCS) on page 9-33*.

SERVICE STABILITRAK

This message displays if there is a problem with the StabiliTrak® system. See *StabiliTrak® System on page 9-34*.

Airbag System Messages

SERVICE AIRBAG

This message displays if there is a problem with the airbag system. Take the vehicle to your dealer for service.

Security Messages

THEFT ATTEMPTED

This message displays if the vehicle detects a tamper condition.

Service Vehicle Messages

SERVICE AC SYSTEM

This message is displays if there is a problem with the air conditioning system. Take the vehicle to your dealer for service.

SERVICE POWER STEERING

This message is displays if there is a problem with the power steering system. Take the vehicle to your dealer for service.

SERVICE STEERING COLUMN LOCK

This message is displays if there is a problem with the steering column lock. Take the vehicle to your dealer for service.

SERVICE VEHICLE SOON

This message is displays if there is a problem with the vehicle. Take the vehicle to your dealer for service.

Information Provided by: DEALER E-PROCESS

Starting the Vehicle Messages

TURN STEERING WHEEL TURN KEY OFF THEN ON

This message is displays when the steering column is locked. Try turning the steering wheel while turning the vehicle off and then back on to unlock the steering column.

TURN STEERING WHEEL START VEHICLE AGAIN

This message is displays when the steering column is locked. Try turning the steering wheel while starting the vehicle to unlock the steering column.

Tire Messages

SERVICE TIRE MONITOR SYSTEM

This message displays if there is a problem with the Tire Pressure Monitor System (TPMS). See *Tire Pressure Monitor Operation on page 10-53* for more information.

TIRE LEARNING ACTIVE

This message displays when the system is learning new tires. See *Tire Pressure Monitor Operation on page 10-53* for more information.

TIRE PRESSURE LOW ADD AIR TO TIRE

On vehicles with the Tire Pressure Monitor System (TPMS), this message displays when the pressure in one or more of the vehicle's tires is low.

There is also an icon with the warning that will indicate the location of the low tire

The low tire pressure warning light will also come on. See *Tire Pressure Light on page 5-20*.

If a tire pressure message appears on the DIC, stop as soon as you can. Inflate the tires by adding air until the tire pressure is equal to the values shown on the Tire and Loading Information label. See *Tires on page 10-42*, *Vehicle Load Limits on page 9-12*, and *Tire Pressure on page 10-50*.

You can receive more than one tire pressure message at a time. To read the other messages that may have been sent at the same time, press the set/reset button. The DIC also shows the tire pressure values. See *Driver Information Center (DIC) on page 5-24*.

Information Provided by:
DEALER E-PROCESS

Transmission Messages

SERVICE TRANSMISSION

This message displays if there is a problem with the transmission. See your dealer.

TRANSMISSION HOT — IDLE ENGINE

This message displays and a chime sounds if the transmission fluid in the vehicle gets hot. Driving with the transmission fluid temperature high can cause damage to the vehicle. Stop the vehicle and let it idle to allow the transmission to cool. This message clears when the fluid temperature reaches a safe level.

Vehicle Reminder Messages

ICE POSSIBLE DRIVE WITH CARE

This message is displays when ice conditions are possible.

STEERING COLUMN IS LOCKED

This message is displays when the steering column is locked.

Vehicle Personalization

The audio system controls are used to access the personalization menus for customizing vehicle features.

CONFIG (Configuration): Press to access the Configuration Settings menu.

MENU or MENU/SEL knob (depending on system): Press the center of this knob to enter the menus and select menu items. Turn the knob to scroll through the menus.

BACK: Press to exit or move backwards in a menu.

Information Provided by: DEALER E-PROCESS

Entering the Personalization Menus

1. Press CONFIG to access the Configuration Settings menu.
2. Turn the MENU or MENU/SEL knob to highlight Vehicle Settings. Press the CONFIG button until Vehicle is highlighted on vehicles with navigation system only.
3. Press the center of the MENU or MENU/SEL knob to select the Vehicle Settings menu. Key myst be in the run position.

The following list of menu items will be available:

- Climate and Air Quality
- Comfort and Convenience
- Collision/Detection Systems
- Languages
- Lighting
- Power Door Locks
- Remote Locking, Unlocking, Starting
- Return to Factory Settings

Turn the MENU or MENU/SEL knob to highlight the menu. Press the knob to select it. Each of the menus is detailed in the following information.

Vehicles with a Navigation system will display a check mark to indicate this feature is on.

Climate and Air Quality

If equipped, select the Climate and Air Quality menu and the following will be displayed:

- Auto Fan Speed
- Air Quality Sensor
- Remote Start Auto Heat Seats
- Auto Defog
- Auto Rear Defog

Auto Fan Speed

This will allow you to select the automatic fan speed. This feature sets the climate control fan speed to maintain the interior temperature.

Press the MENU or MENU/SEL knob when Auto Fan Speed is highlighted to open the menu. Turn the knob to highlight High, Medium, or Low. Press the BACK button to confirm the selection and move back to the last menu.

Air Quality Sensor

This will allow you to select whether the system will operate at high or low sensitivity. Only vehicles with the automatic climate control will have this option.

Press the MENU or MENU/SEL knob when Air Quality Sensor is highlighted to open the menu. Turn the knob to highlight High Sensitivity or Low Sensitivity. Press the BACK button to confirm the selection and move back to the last menu.

Information Provided by: DEALER E-PROCESS

Remote Start Auto Heat Seats

On vehicles with remote start and heated seats, the heated seats can be set to on or off.

Press the MENU or MENU/SEL knob when Remote Start Auto Heat Seats is highlighted to open the menu. Turn the knob to highlight On or Off. Press the BACK button to confirm the selection and move back to the last menu.

Auto Defog

When turned On and high humidity is detected, the climate control system may adjust to outside air supply and turn on the air conditioner or the heater. The fan speed may slightly increase to help prevent fogging. When high humidity is no longer detected, the system will return to its prior operation.

Press the MENU or MENU/SEL knob when Auto Defog is highlighted to open the menu. Turn the knob to highlight On or Off. Press the BACK button to confirm the selection and move back to the last menu.

Auto Rear Defog

When on, this feature turns on the rear defogger at vehicle start when the interior temperature is cold and likely fog. The Auto rear defog function can be disabled by pressing . When OFF, the feature can be turned on by pressing . See “Rear Window Defogger” under *Climate Control Systems on page 8-1* for more information.

Press the MENU or MENU/SEL knob when Auto Rear Defog is highlighted to open the menu. Turn the knob to highlight On or Off. Press the knob to confirm the selection and move back to the last menu.

Comfort and Convenience

Select the Comfort and Convenience menu and Chime Volume will be displayed.

Chime Volume

This allows the selection of the chime volume level.

Press the MENU or MENU/SEL knob when Chime Volume is highlighted. Turn the knob to select Normal or High. Press the BACK button to confirm and go back to the last menu.

Collision/Detection Systems

If equipped, select the Collision/ Detection Systems menu and Park Assist will be displayed.

Park Assist

This allows the Ultrasonic Parking Assist feature, audible only, to be turned on or off.

Press the MENU or MENU/SEL knob when Park Assist is highlighted. Turn the knob to select On or Off. Press the knob to confirm and go back to the last menu.

Information Provided by: DEALER E-PROCESS

Languages

Select the Language menu and the following will be displayed:

- English
- Francais
- Espanol

Turn the MENU or MENU/SEL knob to select the language. Press BACK to return to the last menu.

Lighting

Select the Lighting menu and the following will be displayed:

- Exit Lighting
- Vehicle Locator Lights

Exit Lighting

This allows the selection of how long the exterior lamps stay on when leaving the vehicle when it is dark outside.

Press the MENU or MENU/SEL knob when Exit Lighting is highlighted. Turn the knob to select Off, 30 Seconds, 1 Minute, or 2 Minutes. Press the BACK button to confirm and go back to the last menu.

Vehicle Locator Lights

This allows the vehicle locator lights to be turned on or off. When on, the head lamps and back up lamps will flash when the keb fob unbutton is pressed.

Press the MENU or MENU/SEL knob when Vehicle Locator Lights is highlighted to open the menu. Turn the MENU or MENU/SEL knob to highlight On or Off. Press MENU or MENU/SEL to select On or Off. Press the BACK button to confirm the selection and move back to the last menu.

Power Door Locks

Select Power Door Locks and the following will be displayed:

- Auto Door Unlock
- Delayed Door Lock
- Unlocked Door Anti Lock Out
- Auto Door Lock

Auto Door Unlock

This allows selection of which of the doors will automatically unlock when the vehicle is shifted into P (Park).

Press the MENU or MENU/SEL knob when Auto Door Unlock is highlighted. Turn the knob to select All Doors, Driver Door, or Off. Press the knob to confirm and go back to the last menu.

Information Provided by: DEALER E-PROCESS

Delayed Door Lock

When on, this feature will delay the locking of the doors until five seconds after the last door is closed. You will hear three chimes to signal delayed locking is in use. Press either the power lock button or the lock button on the RKE transmitter twice to override the delayed locking feature and immediately lock all of the doors.

Press the MENU or MENU/SEL knob when Delayed Door Lock is highlighted to select On or Off. Press BACK to return to the last menu.

Unlocked Door Anti Lock Out

When on, all doors will lock. The driver door will then unlock if door locking is requested while the drivers door is open and disables Delayed Door Lock feature.

Even when this feature is off, the driver is protected from accidental lockouts when the key is in the ignition.

If Off is selected, the Delayed Door Lock feature may be enabled through an additional menu selection.

Press the MENU or MENU/SEL knob when Unlocked Door Anti Lock Out is highlighted to select On or Off. Press BACK to return to the last menu.

Auto Door Lock

This allows selection of which of the doors will automatically lock when the vehicle is shifted into P (Park).

Press the MENU or MENU/SEL knob when Auto Door Lock is highlighted. Turn the knob to select On or Off. Press the knob to confirm and go back to the last menu.

Remote Locking, Unlocking, Starting

Select Remote Locking, Unlocking, Starting and the following will be displayed (depending on system):

- Remote Lock Feedback
- Door Unlock or Remote Door Lock
- Remote Unlock Light Feedback
- Remote Start

Remote Lock Feedback

This allows selection of what type of feedback is given when locking the vehicle with the RKE transmitter.

Press the MENU or MENU/SEL knob when Remote Lock Feedback is highlighted. Turn the knob to select Lights and Horn, Lights Only, Horn Only, or Off. Press the knob to confirm and go back to the last menu.

Information Provided by: DEALER E-PROCESS

Door Unlock or Remote Door Lock

This allows selection of which doors will unlock when pressing the unlock button on the RKE transmitter.

Press the MENU or MENU/SEL knob when Door Unlock is highlighted. Turn the knob to select All Doors or Driver Door Only. When set to Driver Door Only, the driver door will unlock the first time the unlock button is pressed and all doors will unlock when the button is pressed a second time. When set to All Doors, all of the doors will unlock at the first press of the unlock button. Press the knob to confirm and go back to the last menu.

Remote Unlock Light Feedback

If equipped, this allows selection of what type of feedback is given when unlocking the vehicle with the RKE transmitter.

Press the MENU or MENU/SEL knob when Remote Unlock Light Feedback is highlighted. Turn the knob to select On or Off. Press the knob to confirm and go back to the last menu.

Remote Start

If equipped, this allows selection to turn on or off Remote Start.

Press the MENU or MENU/SEL knob when Remote Start is highlighted. Turn the knob to select On or Off. Press the knob to confirm and go back to the last menu.

Return to Factory Settings

Select Return to Factory Settings to return all vehicle personalization to the default settings. Turn the knob to select Yes or No. Press the knob to confirm and go back to the last menu.

Information Provided by:
DEALER E-PROCESS

✍ NOTES

Information Provided by
DEALER E-PROCESS

Lighting

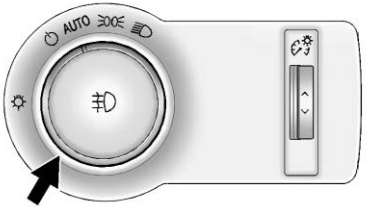
Exterior Lighting
Exterior Lamp Controls 6-1
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Exterior Lighting

Exterior Lamp Controls



The exterior lamps control is located on the instrument panel to the outboard side of the steering column.

It controls the following systems:

- Headlamps
- Taillamps
- Parking Lamps
- License Plate Lamps
- Instrument Panel Lights
- Fog Lamps

The exterior lamps control has four positions:

(Off): Briefly turn to this position to turn the automatic light control off or on again.

AUTO (Automatic): Turns the headlamps on automatically at normal brightness, together with the following:

- Parking Lamps
- Taillamps
- License Plate Lamps
- Instrument Panel Lights
- Side Marker Lamps

(Parking Lamps): Turns the parking lamps on together with the following:

- Taillamps
- License Plate Lamps
- Instrument Panel Lights
- Side Marker Lamps

Information Provided by: DEALER E-PROCESS

(Headlamps): Turns the headlamps on together with the lamps listed below. A warning chime sounds if the driver door is opened when the ignition switch is off and the headlamps are on.

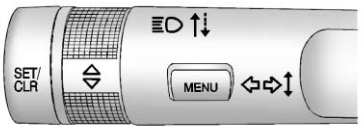
- Parking Lamps
- Taillamps
- License Plate Lamps
- Instrument Panel Lights
- Side Marker Lamps

(Front Fog Lamps): For vehicles with fog lamps, press to turn the lamps on or off.

See *Front Fog Lamps on page 6-4*.

When the lights are on, will be lit. See *Lamps On Reminder on page 5-23*.

Headlamp High/ Low-Beam Changer



Headlamp High/Low-Beam Changer: Push the turn signal/lane change lever away from you to turn the high beams on.

Pull the lever toward you to return to low beams.



This indicator light turns on in the instrument panel cluster when the high-beam headlamps are on.

Flash-to-Pass

To flash the high beams, pull the turn signal/lane change lever all the way toward you. Then release it.

Daytime Running Lamps (DRL)

Daytime Running Lamps (DRL) can make it easier for others to see the front of your vehicle during the day. Fully functional daytime running lamps are required on all vehicles first sold in Canada.



This indicator light turns on in the instrument panel cluster when the DRL are on.

A light sensor on top of the instrument panel makes the DRL work, so be sure it is not covered.

Information Provided by:
DEALER E-PROCESS

The DRL system makes the low-beam headlamps come on at a reduced brightness when the following conditions are met:

- The ignition is in the ON/ RUN mode.
- The exterior lamps control is in AUTO.
- The engine is running.

When the DRL are on, only the low-beam headlamps, at a reduced level of brightness, will be on. The taillamps, sidemarker, instrument panel, and other lamps will not be on.

The headlamps automatically change from DRL to the regular headlamps depending on the darkness of the surroundings. The other lamps that come on with the headlamps will also come on.

When it is bright enough outside, the headlamps go off and the DRL come on.

To turn the DRL lamps off or on again, turn the exterior lamps control to the off position and then release. For vehicles first sold in Canada, the DRL lamps cannot be turned off.

Automatic Headlamp System

When it is dark enough outside and the exterior lamps control is in the automatic position, the headlamps come on automatically. See *Exterior Lamp Controls on page 6-1*.

The vehicle has a light sensor located on top of the instrument panel. Make sure it is not covered, or the headlamps will be on when they are not needed.

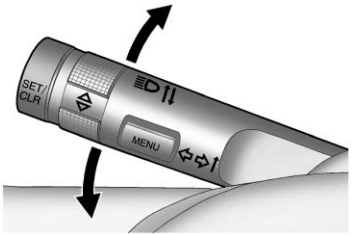
The system may also turn on the headlamps when driving through a parking garage or tunnel.

Hazard Warning Flashers

Hazard Warning Flasher: Press and momentarily hold this button located on the instrument panel above the climate control system, to make the front and rear turn signal lamps flash on and off. This warns others that you are having trouble. Press and momentarily hold again to turn the flashers off.

Information Provided by: DEALER E-PROCESS

Turn and Lane-Change Signals



An arrow on the instrument panel cluster will flash in the direction of the turn or lane change.

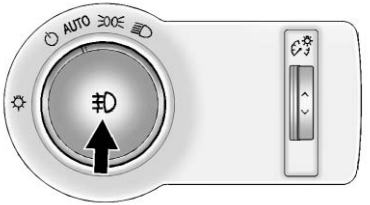
Move the lever all the way up or down to signal a turn.

Raise or lower the lever until the arrow starts to flash to signal a lane change. The turn signal flashes three times.

The lever returns to its starting position when it is released.

If after signaling a turn or lane change the arrow flashes rapidly or does not come on, a signal bulb may be burned out. Have the bulbs replaced. If the bulb is not burned out, check the fuse. See *Fuses and Circuit Breakers on page 10-37* for more information.

Front Fog Lamps



For vehicles with front fog lamps, the button is located on the outboard side of the instrument panel.

The ignition must be on to turn on the fog lamps.

: Press to turn the fog lamps on or off. An indicator light on the instrument panel cluster comes on when the fog lamps are on.

The fog lamps come on together with the parking lamps.

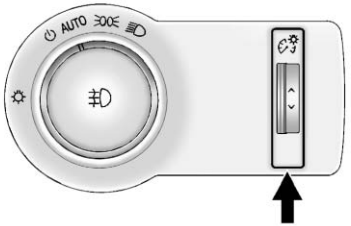
If the high-beam headlamps are turned on, the fog lamps will turn off. If the high-beam headlamps are turned off, the fog lamps will turn back on again.

Some localities have laws that require the headlamps to be on along with the fog lamps.

Information Provided by:
DEALER E-PROCESS

Interior Lighting

Instrument Panel Illumination Control



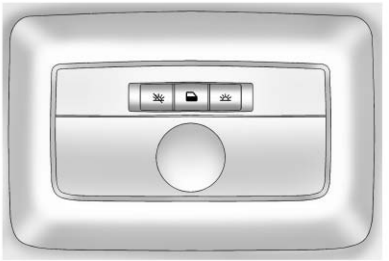
This feature controls the brightness of the instrument panel controls and infotainment display screen. The thumbwheel is located to the left of the steering column on the instrument panel.

(Instrument Panel Brightness): Turn the thumbwheel up or down and hold, to brighten or dim the instrument panel controls and infotainment display screen.

Courtesy Lamps

The courtesy lamps come on automatically when any door is opened and the dome lamp is in the door position.

Dome Lamps



The dome lamp controls are located in the overhead console.

(Dome Lamp Override): Press to turn the lamps off, even when a door is open.

(Door): Press to turn the lamps on automatically when a door is opened.

(On): Press to turn on the dome lamps.

Information Provided by: DEALER E-PROCESS

Reading Lamps



The reading lamps are located in the overhead console.

/ : Press the button near each lamp to turn it on or off.

Lighting Features

Entry Lighting

The headlamps, parking lamps, taillamps, and most of the interior lights turn on briefly, when the Remote Keyless Entry (RKE) is pressed. After about 30 seconds the exterior lamps turn off, and then the dome and remaining interior lights will dim to off. Entry lighting can be disabled manually by changing the ignition out of the OFF position, or by pressing the RKE button.

This feature can be changed. See *Vehicle Personalization on page 5-34*

Exit Lighting

The headlamps, taillamps, parking lamps, back-up lamps, and license plate lamps come on at night, or in areas with limited lighting, when the key is removed from the ignition. The dome lamps also come on when the key is removed from the ignition. The exterior lamps and dome lamps remain on after the door is closed for a set amount of time, then automatically turn off.

The exterior lamps turn off immediately by turning the exterior lamps control to OFF.

The exit lighting feature can be changed. See *Vehicle Personalization on page 5-34*.

Battery Power Protection

The battery saver feature is designed to protect the vehicle's battery.

If some interior lights are left on and the ignition is turned off, the battery rundown protection system automatically turns the lamp off after some time.

Powered by DEALER E-PROCESS

Infotainment System

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Introduction

Infotainment

Read the following pages to become familiar with the audio system's features.

⚠ WARNING

Taking your eyes off the road for extended periods could cause a crash resulting in injury or death to you or others. Do not give extended attention to entertainment tasks while driving.

This system provides access to many audio and non audio listings.

To minimize taking your eyes off the road while driving, do the following while the vehicle is parked:

- Become familiar with the operation and controls of the audio system.
- Set up the tone, speaker adjustments, and preset radio stations.

For more information, see *Defensive Driving on page 9-2*.

The vehicle has Retained Accessory Power (RAP). With RAP, the audio system can be played even after the ignition is turned off. See *Retained Accessory Power (RAP) on page 9-22* for more information.

Navigation/Radio System

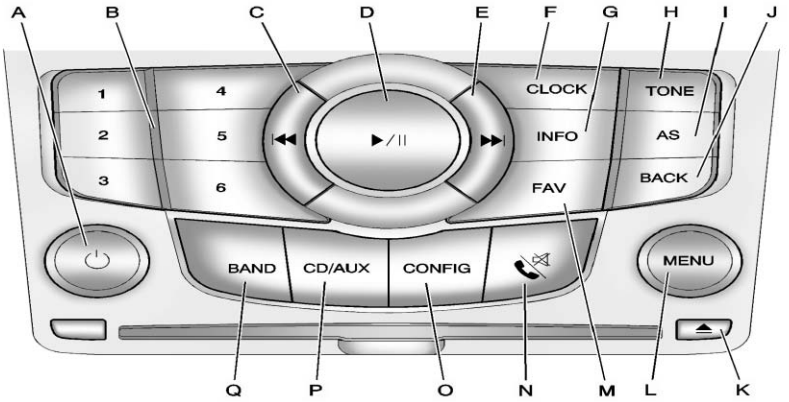
For vehicles with a navigation radio system, see the separate Navigation System manual.

Information Provided by: DEALER E-PROCESS

Theft-Deterrent Feature

The theft-deterrent feature works by learning a portion of the Vehicle Identification Number (VIN) to the infotainment system. The infotainment system does not operate if it is stolen or moved to a different vehicle.

Overview (Base Level)



A. ⏻

- Turns the system on or off and adjusts the volume.

B. Buttons 1 to 6

- Radio: Saves and selects favorite stations.

C. ⏮

- Radio: Seeks the previous station.
- CD: Selects the previous track or rewinds within a track.

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D. ⏵/⏸
- CD: Pauses playback, and stops playback.

E. ⏭
- Radio: Seeks the next station.
- CD: Selects the next track or fast forwards within a track.

F. CLOCK
- Opens the clock menu.

G. INFO
- Radio: Shows available information about the current station.
- CD: Shows available information about the current track.

H. TONE
- Opens the tone menu.

I. AS
- Radio: Opens the auto store stations list.

J. BACK
- Menu: Moves one level back.
- Character Input: Deletes the last character.

K. ⏏
- Removes a disc from the CD slot.

L. MENU or MENU/SEL knob (depending on system)
- Turn to open menus, highlight menu items, or set numeric values while in a menu.
- Press to select menu items.
- Radio: Manually selects radio stations.
- CD: Selects tracks.

M. FAV
- Radio: Opens the favorites list.

N. 📞 / 🔇
- Opens the phone main menu.
- Mutes the audio system.

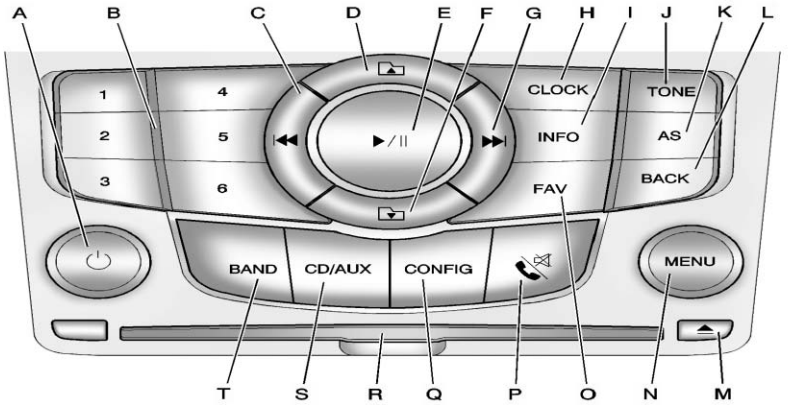
O. CONFIG
- Opens the settings menu.

P. CD/AUX
- Selects the CD player or an external audio source.

Q. BAND
- Changes the band while listening to the radio.
- Selects the radio when listening to a different audio source.

Information Provided by: DEALER E-PROCESS

Overview (Uplevel)



A. ⏻
- Turns the system on or off and adjusts the volume.

B. Buttons 1 to 6
- Radio: Saves and selects favorite stations.

C. ⏮
- Radio: Seeks the previous station.
- CD: Selects the previous track or rewinds within a track.

D.
- CD: Moves up one folder level while playing an MP3.

E. ⏵/⏸
- CD: Pauses playback, and stops playback.

F.
- CD: Moves back one folder level while playing an MP3.

G. ⏭
- Radio: Seeks the next station.
- CD: Selects the next track or fast forwards within a track.

H. CLOCK
- Opens the clock menu.

Information Provided by:
DEALER E-PROCESS

I. INFO
- Radio: Shows available information about the current station.
- CD: Shows available information about the current track.

J. TONE
- Opens the tone menu.

K. AS
- Radio: Opens the auto store stations list.

L. BACK
- Menu: Moves one level back.
- Character Input: Deletes the last character.

M. ⏏
- Removes a disc from the CD slot.

N. MENU or MENU/SEL knob (depneing on system)
- Turn to open menus, highlight menu items, or set numeric values while in a menu.
- Press to select menu items.
- Radio: Manually selects radio stations.
- CD: Selects tracks.

O. FAV
- Radio: Opens the favorites list.

P. 📞 / 🚫
- Opens the phone main menu.
- Mutes the audio system.

Q. CONFIG
- Opens the settings menu.

R. CD Slot
- Insert a CD.

S. CD/AUX
- Selects the CD player or an external audio source.

T. BAND
- Changes the band while listening to the radio.
- Selects the radio when listening to a different audio source.

Information Provided by: DEALER E-PROCESS

Operation

Controls

The infotainment system is operated by using the pushbuttons, multifunction knobs, menus shown on the display, and steering wheel controls, if equipped.

Turning the System On or Off

⏻ **(Volume/Power):** Press to turn the system on and off.

Automatic Switch-Off

If the infotainment system has been turned on after the ignition is turned off, the system will turn off automatically after 10 minutes.

Volume Control

⏻ **(Volume/Power):** Turn to adjust the volume.

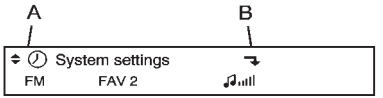
/ (Phone/Mute): Press / to mute the infotainment system. Press / again, or turn the ⏻ knob to cancel mute.

MENU System (Base Level)

The menu system for the base level infotainment system appears on the top half of the display screen.

Menu Icons

The menu icons indicate the following:





A. The up and down arrows indicate that the main menu is active.

B. The angled arrow indicates that a submenu with more options is available.

C. A single right arrow indicates that the first submenu level is active. Two right arrows indicate that the second submenu level is active.

D. The down arrow indicates that that more options are available in the current menu.

Controls

The MENU or MENU/SEL knob and the BACK button are used to navigate the menu system.

MENU or MENU/SEL Knob (depending on system): Press to:

- Enter the menu system.
- Select or activate the menu option.
- Confirm a set value.
- Turn a system setting on or off.

Information Provided by: DEALER E-PROCESS

Turn to:

- Select a menu, or a menu option.
- Select a value.

BACK: Press to:

- Exit a menu.
- Return from a submenu screen to the previous menu screen.
- Delete the last character in a sequence.

Selecting a Menu Option

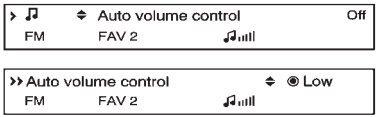
1. Turn the MENU or MENU/SEL knob to scroll through available menu options.
2. Press the MENU or MENU/SEL knob to select the option.

Submenus

A single right arrow indicates that a submenu with other options is available.

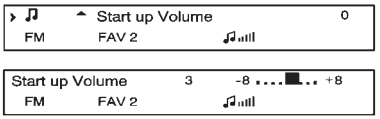
A double right arrow indicates that a second submenu with other options is available.

Activating a Setting



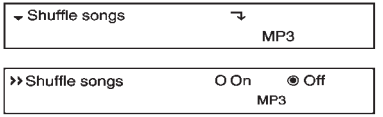
1. Press the MENU or MENU/SEL knob to enter the displayed menu.
2. Turn the MENU or MENU/SEL knob to display the setting.
3. Press the MENU or MENU/SEL knob to activate the setting.

Setting a Value



1. Press the MENU or MENU/SEL knob to enter the displayed menu.
2. Turn the MENU or MENU/SEL knob to change the current value of the setting.
3. Press the MENU or MENU/SEL knob to confirm the setting.

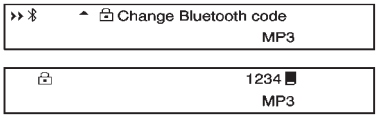
Turning a Function On or Off



1. Press the MENU or MENU/SEL knob to enter the displayed menu.
2. Turn the MENU or MENU/SEL knob to turn the function on or off.
3. Press the MENU or MENU/SEL knob to confirm the setting.

Information Provided by:
DEALER E-PROCESS

Entering a Character Sequence



1. Press the MENU or MENU/SEL knob to enter the displayed menu.
2. Turn the MENU or MENU/SEL knob to adjust the highlighted character.
3. Press the MENU or MENU/SEL knob to select the character.

Press the BACK button to delete the last character in the sequence or press and hold to delete the entire character sequence.

MENU System (Uplevel)

The menu system for the uplevel infotainment system appears on the display screen.

Controls

The MENU or MENU/SEL knob and the BACK button are used to navigate the menu system.

MENU or MENU/SEL Knob (depending on system): Press to:

- Enter the menu system.
- Select or activate the highlighted menu option.
- Confirm a set value.
- Turn a system setting on or off.

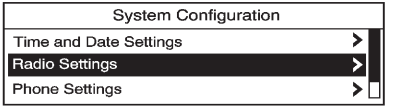
Turn to:

- Highlight a menu option.
- Select a value.

BACK: Press to:

- Exit a menu.
- Return from a submenu screen to the previous menu screen.
- Delete the last character in a sequence.

Selecting a Menu Option



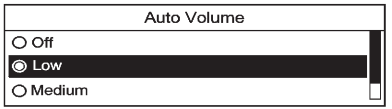
1. Turn the MENU or MENU/SEL knob to move the highlighted bar.
2. Press the MENU or MENU/SEL knob to select the highlighted option.

Information Provided by:
DEALER E-PROCESS

Submenus

An arrow on the right-hand edge of the menu indicates that it has a submenu with other options.

Activating a Setting



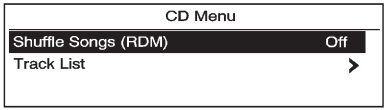
1. Turn the MENU or MENU/SEL knob to highlight the setting.
2. Press the MENU or MENU/SEL knob to activate the setting.

Setting a Value



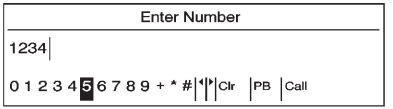
1. Turn the MENU or MENU/SEL knob to change the current value of the setting.
2. Press the MENU or MENU/SEL knob to confirm the setting.

Turning a Function On or Off



1. Turn the MENU or MENU/SEL knob to highlight the function.
2. Press the MENU or MENU/SEL knob to turn the function on or off.

Entering a Character Sequence



1. Turn the MENU or MENU/SEL knob to highlight the character.
2. Press the MENU or MENU/SEL knob to select the character.

Press the BACK button to delete the last character in the sequence or press and hold to delete the entire character sequence.

Information Provided by: DEALER E-PROCESS

Audio Settings

The audio settings can be set for each radio band and each audio player source.

To quickly reset an audio setting value to 0:

1. Press the TONE button.
2. Select the audio setting.
3. Press and hold the MENU or MENU/SEL button until the value changes to 0.

Press the BACK button to go back to the Tone Settings menu.

Adjusting the Treble, Midrange, and Bass

1. Press the TONE button.
2. Select Treble, Midrange, or Bass.
3. Select the value.

Press the BACK button to go back to the Tone Settings menu.

Adjusting the Fader and Balance

1. Press the TONE button.
2. Select Fader or Balance.
3. Select the value.

Press the BACK button to go back to the Tone Settings menu.

Adjusting the EQ (Equalizer)

For vehicles that have an equalizer:

1. Press the TONE button.
2. Select EQ presets.
3. Select the setting.

Press the BACK button to go back to the Tone Settings menu.

System Settings

Configuring the Number of Favorite Pages

To configure the number of available favorite pages:

1. Press the CONFIG button.
2. Select Radio Settings.
3. Select Radio Favorites.
4. Select the number of available favorite pages.
5. Press the BACK button to go back to the System Configuration menu.

Auto Volume

The auto volume feature automatically adjusts the radio volume to compensate for road and wind noise as the vehicle speeds up or slows down, so that the volume level is consistent.

The level of volume compensation can be selected, or the auto volume feature can be turned off.

1. Press the CONFIG button.
2. Select Radio Settings.
3. Select Auto Volume.
4. Select the setting.
5. Press the BACK button to go back to the System Configuration menu.

Information Provided by:
DEALER E-PROCESS

Maximum Startup Volume

The maximum volume played when the radio is first turned on can be set.

1. Press the CONFIG button.
2. Select Radio Settings.
3. Select Maximum Startup Volume.
4. Select the setting.
5. Press the BACK button to go back to the System Configuration menu.

Radio

AM-FM Radio

Control Buttons

The buttons used to control the radio are:

BAND: Press to turn the radio on and choose between AM, FM, and XM™, if equipped.

MENU or MENU/SEL: Turn to navigate the available menus and to search for stations.

INFO: Press to display additional information that may be available for the current song.

⏮ / ⏭ **:** Press to search for stations.

FAV: Press to open the favorites list and select the favorites page.

1 to 6: Press to select preset stations.

AS (Autostore): Press to open the autostore list.

RDS (Radio Data System)

The radio may have RDS. The RDS feature is available for use only on FM stations that broadcast RDS information. This feature only works when the information from the radio station is available. In rare cases, a radio station could broadcast incorrect information that causes the radio features to work improperly. If this happens, contact the radio station.

While the radio is tuned to an FM-RDS station, the station name or call letters display.

Radio Menus

Radio menus are available for AM and FM.

Turn the MENU or MENU/SEL knob to open the main radio menu for that band.

Information Provided by: DEALER E-PROCESS

Selecting a Band

Press the BAND button to choose AM, FM, or XM™, if equipped. The last station that was playing starts playing again.

Selecting a Station

Seek Tuning

If the radio station is not known:

Briefly press ⏮ or ⏭ to automatically search for the next available station. If a station is not found, the radio switches to a more sensitive search level. If a station still is not found, the frequency that was last active begins to play.

If the radio station is known:

Press and hold ⏮ or ⏭ until the station on the display is reached, then release the button.

Manual Tuning

Turn the TUNE knob to select the frequency on the display.

Favorites List

1. Turn the MENU or MENU/SEL knob.
2. Select Favorites List.
3. Select the station.

Station Lists

1. Turn the MENU or MENU/SEL knob.
2. Select AM or FM Station List. All receivable stations in the current reception area are displayed. If a station list has not been created, an automatic station search is done.
3. Select the station.

Category Lists

Most stations that broadcast an RDS program type code specify the type of programming transmitted. Some stations change the program type code depending on the content. The system stores the RDS stations sorted by program type in the FM category list.

To search for a programming type determined by station:

1. Turn the MENU or MENU/SEL knob.
2. Select FM category list. A list of all programming types available displays.
3. Select the programming type. A list of stations that transmit programming of the selected type displays.
4. Select the station.

The category lists are updated when the station lists are updated.

Information Provided by: DEALER E-PROCESS

Updating Station & Category Lists

If stations stored in the station list can no longer be received:

1. Turn the MENU or MENU/SEL knob.
2. Select Update AM or FM Station List, if the stations stored in the station list are no longer received. A station search will be completed and the first station in the updated list will play.

To cancel the station search, press the MENU or MENU/SEL Knob.

Storing a Station as a Favorite

Stations from all bands can be stored in any order in the favorite pages.

Up to six stations can be stored in each favorite page and the number of available favorite pages can be set.

Storing Stations

To store the station to a position in the list, press the corresponding button 1 to 6 until a beep is heard.

Retrieving Stations

Press the FAV button to open a favorite page or to switch to another favorite page. Briefly press one of the 1 to 6 buttons to retrieve the station.

Autostore Stations

AS (Autostore): Autostore searches and stores six FM and six AM stations with the strongest signal. To use autostore:

1. Press RADIO/BAND to select FM or AM.
2. Press AS for at least two seconds until a beep sounds. SEARCH displays on the radio, followed by the number of stations found.
3. The radio will automatically store the six strongest stations found as autostore presets.

Press the AS button to alternate between the autostore stations and favorites.

AS displays on the radio when using autostore presets.

Autostore does not delete previously stored favorite stations.

Autostore does not function with XM radio stations.

Satellite Radio

Vehicles with an XM™ Satellite Radio tuner and a valid XM Satellite Radio subscription can receive XM programming.

Information Provided by:
DEALER E-PROCESS

XM Satellite Radio Service

XM is a satellite radio service that is based in the 48 contiguous United States and 10 Canadian provinces. XM Satellite Radio has a wide variety of programming and commercial-free music, coast to coast, and in digital-quality sound. A service fee is required to receive the XM service. If XM Service needs to be reactivated, the radio will display "No Subscription Please Renew" on channel XM1. For more information, contact XM at www.xmradio.com or call 1-800-929-2100 in the U.S. and www.xmradio.ca or call 1-877-438-9677 in Canada.

Control Buttons

The buttons used to control the XM radio are:

RADIO/BAND: Press to turn the radio on and choose between AM, FM, and XM.

⏮ / ⏭ : Press to go to the previous or next channel.

FAV: Press to open the favorites list.

1 to 6: Press to select a favorite.

MENU or MENU/SEL (depending on system): Turn to select a channel.

INFO: Press to display additional information that may be available about the current song.

⏵/⏸ (Play/Pause): Press to pause time shifted content, if equipped.

Selecting the XM Band

Press the RADIO/BAND button to choose between the AM, FM, and XM bands. The last channel played in that band begins to play when that band is selected.

XM Categories

XM channels are organized in categories.

Removing or Adding Categories

Channels in a category that have been removed can still be accessed by using the ⏮ or ⏭ buttons, or the MENU or MENU/SEL knob.

To add or remove categories:

1. Press the CONFIG button.
2. Select Radio Settings.
3. Select XM Categories.
4. Turn the MENU or MENU/SEL knob to highlight the category.
5. Press the MENU or MENU/SEL knob to remove or add the category.

Selecting an XM Channel

XM channels can be selected by using ⏮, ⏭, the MENU or MENU/SEL knob, or the menu system.

Information Provided by: DEALER E-PROCESS

Selecting a Channel Using ⏮ or ⏭

- Press and release ⏮ or ⏭ to go to the previous or next channel.
- Press and hold ⏮ or ⏭ to scroll through the previous or next channel until the channel is reached.

Selecting a Channel Using the MENU Knob

To select an XM channel using the MENU or MENU/SEL knob:

Turn the MENU or MENU/SEL knob to highlight an XM channel. The channel is selected after a short delay.

To select a channel using the menu:

1. Turn the MENU or MENU/SEL knob and select Channel List.
2. Select the desired channel.

Selecting a Channel Using the Menu System

1. Turn the MENU or MENU/SEL knob.
2. Select XM Category List.
3. Select the category.
4. Select the channel.

Storing an XM Channel as a Favorite

Channels from all bands can be stored in any order in the favorite pages.

Up to six channels can be stored in each favorite page and the number of available favorite pages can be set.

Storing a Channel as a Favorite

To store the channel to a position in the list, press and hold the corresponding 1 to 6 button until the channel can be heard again.

Retrieving Channels

Press the FAV button to open a favorite page or to change to another favorite page. Briefly press one of the 1 to 6 buttons to retrieve the channel.

XM Messages

XL (Explicit Language Channels): These channels, or any others, can be blocked by request, by calling 1-800-929-2100 in the U.S., and 1-877-438-9677 in Canada.

XM Updating: The encryption code in the receiver is being updated. No action is required. This process should take no longer than 30 seconds.

Loading XM: The audio system is acquiring and processing audio and text data. No action is needed. This message should disappear shortly.

Channel Off Air: This channel is not currently in service. Tune in to another channel.

Information Provided by: DEALER E-PROCESS

Channel Unauth: This channel is blocked or cannot be received with your XM Subscription package.

Channel Unavailable: This previously assigned channel is no longer assigned. Tune to another station.

No Artist Info: The system is working properly. No artist information is available at this time on this channel.

No Title Info: The system is working properly. No song title information is available at this time on this channel.

No CAT Info: The system is working properly. No category information is available at this time on this channel.

No Information: The system is working properly. No text or informational messages are available at this time on this channel.

No Subscription Please Renew: XM subscription needs to be reactivated. Contact XM at www.xmradio.com or call 1-800-929-2100 in the U.S. and www.xmradio.ca or call 1-877-438-9677 in Canada.

No XM Signal: The system is working properly. The vehicle may be in a location where the XM signal is being blocked. When the vehicle is moved into an open area, the signal should return.

CAT Not Found: The system is working properly. There are no channels available for the selected category.

XM Radio ID: If tuned to channel 0, this message alternates with the XM Radio 8-digit radio ID label. This label is needed to activate the service.

Unknown: If this message is received when tuned to channel 0, there could be a receiver fault. Consult with your dealer.

Check Antenna: If this message does not clear within a short period of time, the receiver could have a fault. Consult with your dealer.

XM Not Available: If this message does not clear within a short period of time, the receiver could have a fault. Consult with your dealer.

Radio Reception

Frequency interference and static can occur during normal radio reception if items such as cell phone chargers, vehicle convenience accessories, and external electronic devices are plugged into the accessory power outlet. If there is interference or static, unplug the item from the accessory power outlet.

Information Provided by: DEALER E-PROCESS

FM

FM signals only reach about 16 to 65 km (10 to 40 miles). Although the radio has a built-in electronic circuit that automatically works to reduce interference, some static can occur, especially around tall buildings or hills, causing the sound to fade in and out.

AM

The range for most AM stations is greater than for FM, especially at night. The longer range can cause station frequencies to interfere with each other. For better radio reception, most AM radio stations boost the power levels during the day, and then reduce these levels during the night. Static can also occur when things like storms and power lines interfere with radio reception. When this happens, try reducing the treble on the radio.

XM™ Satellite Radio Service

XM Satellite Radio Service gives digital radio reception from coast to coast in the 48 contiguous United States, and in Canada. Just as with FM, tall buildings or hills can interfere with satellite radio signals, causing the sound to fade in and out. In addition, traveling or standing under heavy foliage, bridges, garages, or tunnels may cause loss of the XM signal for a period of time.

Cellular Phone Usage

Cellular phone usage may cause interference with the vehicle's radio. This interference may occur when making or receiving phone calls, charging the phone's battery, or simply having the phone on. This interference can cause an increased level of static while listening to the radio. If static is received while listening to the radio, unplug the cellular phone and turn it off.

Satellite Radio Antenna

The XM Satellite Radio antenna is located on the roof of the vehicle. Keep the antenna clear of obstructions for clear radio reception.

If the vehicle has a sunroof, the performance of the XM system may be affected if the sunroof is open.

Multi-Band Antenna

The multi-band antenna is on the roof of the vehicle. The antenna is used for the AM/FM radio, OnStar, the XM Satellite Radio Service System, and GPS (Global Positioning System), if the vehicle has these features. Keep the antenna clear of obstructions for clear reception.

Information Provided by:
DEALER E-PROCESS

Audio Players

CD Player

The CD player can play audio CDs and MP3 CDs.

The CD player will not play 8 cm (3 in) CDs.

Care of CDs

Sound quality can be reduced due to disc quality, recording method, quality of the music recorded, and how the disc has been handled. Handle discs carefully and store them in their original cases or other protective cases away from direct sunlight and dust. If the bottom surface of a disc is damaged, the disc may not play properly or at all. Do not touch the bottom surface of a disc while handling it; this could damage the surface. Pick up discs by grasping the outer edges or the edge of the hole and the outer edge.

If the bottom surface of a disc is dirty, take a soft lint-free cloth, or dampen a clean soft cloth in a mild neutral detergent solution mixed with water, and clean it. Wipe the disc from the center to the outer edge.

Care of the CD Player

Do not add a label to a disc, as it could get caught in the CD player. If a label is needed, label the top of the recorded disc with a marking pen.

Do not use disc lens cleaners because they could contaminate the lens of the disc optics and damage the CD player.

Notice: **If a label is added to a CD, or more than one CD is inserted into the slot at a time, or an attempt is made to play scratched or damaged CDs, the CD player could be damaged.**

While using the CD player, use only CDs in good condition without any label, load one CD at a time, and keep the CD player and the loading slot free of foreign materials, liquids, and debris.

Control Buttons

The buttons used to control the CD player are:

CD/AUX: Press to use the CD player.

⏭ / ⏮ **:** Press to select tracks or to fast forward or rewind within a track.

INFO: Press to display additional information about the current track that may be available.

TUNE: Turn to select tracks.

Information Provided by: DEALER E-PROCESS

MENU or MENU/SEL knob (depending on system): Turn to enter the menu.

SELECT: Press to select an item.

⏏ **(Eject):** Press to eject the disc.

Inserting a CD

With the printed side facing up, insert a disc into the CD slot until it is drawn in.

Removing a CD

Press the ⏏ button.

The disc is pushed out of the CD slot.

If the disc is not removed after it is ejected, it is pulled back in after a few seconds.

Playing a CD or MP3 CD

Press the CD/AUX button if there is a disc in the player; it begins playing.

Information about the disc and current track is shown on the display depending on the data stored.

Selecting a CD Track

Using the control buttons:

- Press the ⏮ or ⏭ button to select the previous or next track.
- Turn the TUNE knob.

Using the CD Menu:

1. Turn the MENU or MENU/SEL knob.
2. Select Tracks list.
3. Select the track.

Playing Tracks in Random Order

Turn the MENU or MENU/SEL knob and then set Shuffle Songs to On.

Fast Forward and Rewind

Press and hold ⏭ or ⏮ to fast forward or rewind within the current track.

Selecting an MP3 Track

Using the control buttons:

- Press the ⏮ or ⏭ button to select the previous or next track.
- Turn the TUNE knob.

Using the CD Menu:

1. Turn the MENU or MENU/SEL knob.
2. Select Playlists/Folders.
3. Select the playlist or folder.
4. Select the track.

Searching for MP3 Tracks

The search feature may take some time to display the information after reading the disc due to the amount of information stored on the disc. FM automatically plays while the disc is being read.

Information Provided by: DEALER E-PROCESS

Tracks can be searched by:

- Playlists
- Artists
- Albums
- Song Titles
- Genres
- Folder View

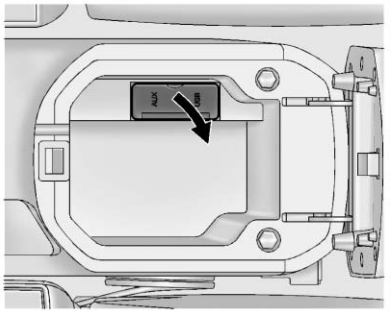
To search for tracks:

1. Turn the MENU or MENU/SEL knob.
2. Select Search.
3. Select: Playlists, Artists, Albums, Song Titles, Genres, or Folder View.
4. Select the track.

Auxiliary Devices

The optional AUX input allows portable devices to connect to the vehicle using the 3.5 mm (1/8 in) auxiliary jack or USB port.

Portable devices are controlled by using the menu system described in *Operation on page 7-6*.



The AUX input/USB port is located in the center console. Remove the cover to access and replace when not in use.

3.5 mm Jack

Connect a 3.5 mm (1/8 in) cable to the auxiliary input jack to use a portable audio player.

Playback of an audio device that is connected to the 3.5 mm jack can only be controlled using the controls on the device.

Adjusting the Volume

Turn the ⏻ knob to adjust the volume of the infotainment system after the volume level has been set on the portable audio device.

USB Port

For vehicles with a USB port, the following devices may be connected and controlled by the infotainment system.

- iPods
- PlaysForSure Devices (PFD)
- USB Drives
- Zunes

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Not all iPods, PFDs, USB drives, and Zunes are compatible with the infotainment system. Devices are also charged while plugged into the USB port.

Connecting and Controlling an iPod™

Not all iPods can be controlled by the infotainment system.

Connecting an iPod

Connect the iPod to the USB port.

Searching for a Track

Tracks that are found can be searched for by:

- Playlists
- Artists
- Albums
- Song Titles
- Podcasts
- Genres
- Audiobooks
- Composers

To search for tracks:

1. Turn the MENU or MENU/SEL knob.
2. Select Search.
3. Select: Playlists, Artists, Albums, Song Titles, Podcasts, Genres, Audiobooks, or Composers.
4. Select the track.

Shuffle

Turn the MENU or MENU/SEL knob and set Shuffle Songs (Random) to On or Off, then press the BACK button to return the main screen.

On: Plays tracks in the current folder in random order.

Off: Plays tracks in the current folder in sequential order.

Repeat

Turn the MENU or MENU/SEL knob and set Repeat to On or Off, then press the BACK button to return the main screen.

On: Repeats the current track.

Off: Starts playback from the beginning of the current track after the last track finishes.

Connecting and Controlling a PlaysForSure Device (PFD) or Zune™

Connecting a PFD or Zune

Connect the PFD or Zune to the USB port.

Searching for a Track

Tracks can be searched for by:

- Playlists
- Artists
- Albums
- Song Titles
- Podcasts
- Genres

Information Provided by: DEALER E-PROCESS

To search for tracks:

1. Turn the MENU or MENU/SEL knob.
2. Select Search.
3. Select: Playlists, Artists, Albums, Song Titles, Podcasts, or Genres.
4. Select the track.

Shuffle Functionality

Turn the MENU or MENU/SEL knob and set Shuffle Songs (Random) to On or Off.

On: Plays current tracks in random order.

Off: Plays current tracks in sequential order.

Repeat Functionality

Turn the MENU or MENU/SEL knob and set Repeat to On or Off.

Repeat On: Repeats the current track.

Repeat Off: Starts playback from the beginning of the current track after the last track finishes.

Connecting and Controlling a USB Drive

The infotainment system can only play back .mp3 and .wma files from a USB drive.

Only the first 10,000 songs are recognized on the device.

When a device is not supported, the message “No supported data found. You can safely disconnect the device” appears.

Connecting a USB Drive

Connect the USB drive to the USB port.

Searching for a Track

It is normal for the search feature to take some time to display the information after reading the device due to the amount of information stored.

Files that do not have any meta data stored in the ID3 tag display as Unknown.

Tracks can be searched for by:

- Playlists*
- Artists
- Albums
- Song Titles
- Genres
- Folder View

*This only displays if a playlist is found on the device.

To search for tracks:

1. Turn the MENU or MENU/SEL knob.
2. Select Search.
3. Select: Playlists, Artists, Albums, Song Titles, Genres, or Folder View.
4. Select the track.

Information Provided by: DEALER E-PROCESS

Shuffle Functionality

Turn the MENU or MENU/SEL knob and set Shuffle Songs (Random) to On or Off.

On: Plays current tracks in random order.

Off: Plays current tracks in sequential order.

Repeat Functionality

Turn the MENU or MENU/SEL knob and set Repeat to On or Off.

Repeat On: Repeats the current track.

Repeat Off: Starts playback from the beginning of the current track after the last track finishes.

Phone

Bluetooth (Overview)

Vehicles with a Bluetooth system can use a Bluetooth capable cell phone with a Hands-Free Profile to make and receive phone calls. The infotainment system and voice recognition are used to control the system. The system can be used while the ignition is in ON/RUN or ACC/ACCESSORY. The range of the Bluetooth system can be up to 9.1 m (30 ft). Not all phones support all functions and not all phones work with the Bluetooth system. See www.gm.com/bluetooth for more information about compatible phones.

Bluetooth Controls

Use the buttons located on the infotainment system and the steering wheel to operate the Bluetooth system.

Steering Wheel Controls

(Push To Talk): Press to answer incoming calls, to confirm system information, and to start voice recognition.

(End Call/Mute): Press to end a call, reject a call, or cancel an operation.

Infotainment System Controls

For information about how to navigate the menu system using the infotainment controls, see *Operation on page 7-6*.

/ (Phone): Press to enter the Phone main menu.

Voice Recognition

The voice recognition system uses commands to control the system and dial phone numbers.

Noise: The system may not recognize voice commands if there is too much background noise.

Information Provided by: DEALER E-PROCESS

When to Speak: A tone sounds to indicate that the system is ready for a voice command. Wait for the tone and then speak.

How to Speak: Speak clearly in a calm and natural voice.

Audio System

When using the Bluetooth system, sound comes through the vehicle's front audio system speakers and overrides the audio system. Turn the ⏻ knob during a call to change the volume level. The adjusted volume level remains in memory for later calls. The system maintains a minimum volume level.

Other Information

The Bluetooth® word mark and logos are owned by the Bluetooth® SIG, Inc. and any use of such marks by General Motors is under license. Other trademarks and trade names are those of their respective owners.

See *Radio Frequency Statement on page 13-16* for FCC and Industry Canada information.

Bluetooth (Infotainment Controls)

For information about how to navigate the menu system using the infotainment controls, see *Operation on page 7-6*.

Pairing

A Bluetooth-enabled cell phone must be paired to the Bluetooth system first and then connected to the vehicle before it can be used. See the cell phone manufacturer's user guide for Bluetooth functions before pairing the cell phone. If a Bluetooth phone is not connected, calls will be made using OnStar® Hands-Free Calling, if available. Refer to the OnStar Owner's Guide for more information.

The pairing process can be started by using the voice recognition system or the controls on the infotainment system.

Pairing Information:

- Up to five cell phones can be paired to the Bluetooth system.
- The pairing process is disabled when the vehicle is moving.
- The Bluetooth system links with the first available paired cell phone in the order the phone was paired.
- Only one paired cell phone can be connected to the Bluetooth system at a time.
- Pairing should only need to be completed once, unless changes to the pairing information have been made or the phone is deleted.

To link to a different paired phone, see “Linking to a Different Phone” later in this section.

Information Provided by: DEALER E-PROCESS

Pairing a Phone

1. Press the CONFIG button.
2. Select Phone Settings.
3. Select Bluetooth.
4. Select Pair Device (Phone). A four-digit Personal Identification Number (PIN) appears on the display.

 If the “Add new GPS device” option is selected, the system will start a search for Bluetooth “Handsfree” profile devices just like if “Add new Phone” was selected. The additional GPS location feature which would provide the vehicle's GPS location through the Bluetooth Serial Port Profile is not available.
5. Start the pairing process on the cell phone that will be paired to the vehicle. Reference the cell phone manufacturer's user guide for information on this process. Locate the device named “Your Vehicle” in the list on the cell phone and follow the instructions on the cell phone to enter the four-digit PIN provided by the system.
6. The system prompts for a name for the phone and confirms the name provided. This name is used to indicate which phone is connected.
7. The system responds with “<Phone name> has been successfully paired” after the pairing process is complete.
8. Repeat Steps 1 through 7 to pair additional phones.

Listing All Paired and Connected Phones

1. Press the CONFIG button.
2. Select Phone Settings.
3. Select Bluetooth.
4. Select Device List.

Deleting a Paired Phone

1. Press the CONFIG button.
2. Select Phone Settings.
3. Select Bluetooth.
4. Select Device List.
5. Select the phone to delete and follow the on-screen prompts.

Linking to a Different Phone

To link to a different phone, the new phone must be in the vehicle and available to be connected to the Bluetooth system before the process is started.

1. Press the CONFIG button.
2. Select Phone Settings.
3. Select Bluetooth.
4. Select Device List.
5. Select the new phone to link to and follow the on-screen prompts.

 If delete is selected, the highlighted phone will be deleted.

Information Provided by: DEALER E-PROCESS

Making a Call Using Phone Book

For cell phones that support the phone book feature, the Bluetooth system can use the contacts stored on your cell phone to make calls. See your cell phone's owner's guide or contact your wireless provider to find out if this feature is supported by your phone.

When a cell phone supports the phone book feature, the Phone Book and Call Lists menus are automatically available.

The Phone Book menu allows you to access the phone book stored in the cell phone to make a call.

The Call Lists menu allows you to access the phone numbers from the Incoming Calls, Outgoing Calls, and Missed Calls menus on your cell phone to make a call.

To make a call using the Phone Book menu:

1. Press the ✆ / ⊠ button twice.
2. Select Phone Book.
3. You can search through the list by selecting the letter group the phone book entry begins with, or press the MENU or MENU/SEL knob to scroll through the entire list of names/numbers in the phone book.
4. Select the name or number you want to call.

To make a call using the Call Lists menu:

1. Press the ✆ / ⊠ button twice.
2. Select Call Lists.
3. Select the Incoming Calls, Outgoing Calls, or Missed Calls list.
4. Select the name or number you want to call.

Making a Call

1. Press the ✆ / ⊠ button twice.
2. Enter the character sequence. See “Entering a Character Sequence” in *Operation on page 7-6* for more information.
3. Select Call to start dialing the number.

Accepting or Declining a Call

When a call is received, the infotainment system mutes and a ring tone is heard in the vehicle.

Accepting a Call

Turn the MENU or MENU/SEL knob to Answer and press the MENU or MENU/SEL knob.

Declining a Call

Turn the MENU or MENU/SEL knob to Decline and press the MENU or MENU/SEL knob.

Information Provided by: DEALER E-PROCESS

Call Waiting

Call waiting must be supported on the Bluetooth phone and enabled by the wireless service carrier to work.

Accepting a Call

Turn the MENU or MENU/SEL knob to Answer and press the MENU or MENU/SEL knob.

Declining a Call

Turn the MENU or MENU/SEL knob to Decline and press the MENU or MENU/SEL knob.

Switching Between Calls (Call Waiting Calls Only)

To switch between calls:

1. Press the MENU or MENU/SEL knob.
2. Select Switch Call from the menu.

Conference Calling

Conference calling and three-way calling must be supported on the Bluetooth phone and enabled by the wireless service carrier to work.

To start a conference while in a current call:

1. Press the MENU or MENU/SEL knob.
2. Select Enter Number.
3. Enter the character sequence then select call. See “Entering a Character Sequence” in *Operation on page 7-6* for more information.
4. After the call has been placed, turn the MENU or MENU/SEL knob button and choose Merge Calls.
5. To add more callers to the conference call, repeat Steps 1 through 4. The number of callers that can be added is limited by your wireless service carrier.

Ending a Call

Press the MENU or MENU/SEL knob and select Hang Up.

Muting a Call

To Mute a Call

Press the MENU or MENU/SEL knob and select Mute Call.

To Cancel Mute

Press the MENU or MENU/SEL knob and select Mute Call.

Dual Tone Multi-Frequency (DTMF) Tones

The Bluetooth system can send numbers during a call. This is used when calling a menu-driven phone system.

1. Press the MENU or MENU/SEL knob and select Enter Number.
2. Enter the character sequence. See “Entering a Character Sequence” in *Operation on page 7-6* for more information.

Information Provided by: DEALER E-PROCESS

Bluetooth (Voice Recognition)

Using Voice Recognition

To use voice recognition, press the button located on the steering wheel. The system responds differently depending on what kind of infotainment system the vehicle has installed.

For vehicles without a navigation system, the system responds “Ready,” followed by a tone. After the tone, say a command.

For vehicles with a navigation system, the system responds with a tone. After the tone say “Hands Free” to use the Bluetooth voice recognition system. The system then responds with “Ready,” followed by a tone. After the tone, say a command.

For additional information say “Help” while you are in a voice recognition menu.

Pairing

A Bluetooth cell phone must be paired to the Bluetooth system and then connected to the vehicle before it can be used. See your cell phone manufacturer's user guide for Bluetooth functions before pairing the cell phone. If a Bluetooth phone is not connected, calls will be made using OnStar Hands-Free Calling, if available. Refer to the OnStar owner's guide for more information.

Pairing Information

- Up to five cell phones can be paired to the Bluetooth system.
- The pairing process is disabled when the vehicle is moving.
- Pairing only needs to be completed once, unless the pairing information on the cell phone changes or the cell phone is deleted from the system.
- Only one paired cell phone can be connected to the Bluetooth system at a time.
- If multiple paired cell phones are within range of the system, the system connects to the first available paired cell phone in the order that they were first paired to the system. To link to a different paired phone, see “Connecting to a Different Phone” later in this section.

Pairing a Phone

1. Press . For vehicles with a navigation system, say “Hands Free,” after the tone.
2. Say “Bluetooth.”
3. Say “Pair.” The system responds with instructions and a four-digit Personal Identification Number (PIN). The PIN is used in Step 5.
4. Start the pairing process on the cell phone that you want to pair. For help with this process, see your cell phone manufacturer's user guide.

Information Provided by: DEALER E-PROCESS

5. Locate the device named “Your Vehicle” in the list on the cell phone. Follow the instructions on the cell phone to enter the PIN that was provided in Step 3. After the PIN is successfully entered, the system prompts you to provide a name for the paired cell phone. This name will be used to indicate which phones are paired and connected to the vehicle. See “Listing All Paired and Connected Phones” later in this section for more information.
6. Repeat Steps 1 through 5 to pair additional phones.

Listing All Paired and Connected Phones

The system can list all cell phones paired to it. If a paired cell phone is also connected to the vehicle, the system responds with “is connected” after that phone name.

1. Press . For vehicles with a navigation system, say “Hands Free,” after the tone.
2. Say “Bluetooth.”
3. Say “List.”

Deleting a Paired Phone

If the phone name you want to delete is unknown, see “Listing All Paired and Connected Phones.”

1. Press . For vehicles with a navigation system, say “Hands Free,” after the tone.
2. Say “Bluetooth.”
3. Say “Delete.”
4. Say the name of the phone you want to delete.

Connecting to a Different Phone

To connect to a different cell phone, the Bluetooth system looks for the next available cell phone in the order in which all the available cell phones were paired. Depending on which cell phone you want to connect to, you may have to use this command several times.

1. Press . For vehicles with a navigation system, say “Hands Free,” after the tone.
2. Say “Bluetooth.”
3. Say “Change phone.”
 - If another cell phone is found, the response will be “<Phone name> is now connected.”
 - If another cell phone is not found, the original phone remains connected.

Information Provided by: DEALER E-PROCESS

Storing and Deleting Phone Numbers

The system can store up to 30 phone numbers as name tags in the Hands-Free Directory that is shared between the Bluetooth and OnStar systems.

The following commands are used delete and store phone numbers.

Store: This command will store a phone number or a group of numbers as a name tag.

Digit Store: This command allows a phone number to be stored as a name tag by entering the digits one at a time.

Delete: This command is used to delete individual name tags.

Delete All Name Tags: This command deletes all stored name tags in the Hands-Free Calling Directory and the OnStar Turn-by-Turn Destinations Directory.

Using the "Store" Command

1. Press . For vehicles with a navigation system, say "Hands Free," after the tone.
2. Say "Store."
3. Say the phone number or group of numbers you want to store all at once with no pauses, then follow the directions given by the system to save a name tag for this number.

Using the "Digit Store" Command

If an unwanted number is recognized by the system, say "Clear" at any time to clear the last number.

To hear all of the numbers recognized by the system, say "Verify" at any time.

1. Press . For vehicles with a navigation system, say "Hands Free," after the tone.
2. Say "Digit Store."
3. Say each digit, one at a time, that you want to store. After each digit is entered, the system repeats back the digit it heard followed by a tone. After the last digit has been entered, say "Store," and then follow the directions given by the system to save a name tag for this number.

Using the "Delete" Command

1. Press . For vehicles with a navigation system, say "Hands Free," after the tone.
2. Say "Delete."
3. Say the name tag you want to delete.

Information Provided by: DEALER E-PROCESS

Using the "Delete All Name Tags" Command

This command deletes all stored name tags in the Hands-Free Calling Directory and the OnStar Turn-by-Turn Destinations Directory.

To delete all name tags:

1. Press . For vehicles with a navigation system, say "Hands Free," after the tone.
2. Say "Delete all name tags."

Listing Stored Numbers

The list command will list all the stored numbers and name tags.

Using the "List" Command

1. Press . For vehicles with a navigation system, say "Hands Free," after the tone.
2. Say "Directory."
3. Say "Hands-Free Calling."
4. Say "List."

Making a Call

Calls can be made using the following commands.

Dial or Call: The dial or call command can be used interchangeably to dial a phone number or a stored name tag.

Digit Dial: This command allows a phone number to be dialed by entering the digits one at a time.

Re-dial : This command is used to dial the last number used on the cell phone.

Using the "Dial" or "Call" Command

1. Press . For vehicles with a navigation system, say "Hands Free," after the tone.
2. Say "Dial" or "Call."
3. Say the entire number without pausing or say the name tag.

Once connected, the person called will be heard through the audio speakers.

Using the "Digit Dial" Command

The digit dial command allows a phone number to be dialed by entering the digits one at a time. After each digit is entered, the system repeats back the digit it heard followed by a tone.

If an unwanted number is recognized by the system, say "Clear" at any time to clear the last number.

To hear all of the numbers recognized by the system, say "Verify" at any time.

1. Press . For vehicles with a navigation system, say "Hands Free," after the tone.
2. Say "Digit Dial."
3. Say each digit, one at a time, that you want to dial. After each digit is entered, the system repeats back the digit it heard followed by a tone. After the last digit has been entered, say "Dial."

Information Provided by: DEALER E-PROCESS

Once connected, the person called will be heard through the audio speakers.

Using the "Re-dial" Command

1. Press . For vehicles with a navigation system, say "Hands Free," after the tone.
2. After the tone, say "Re-dial."

Once connected, the person called will be heard through the audio speakers.

Receiving a Call

When an incoming call is received, the audio system mutes and a ring tone is heard in the vehicle.

- Press to answer the call.
- Press to ignore a call.

Call Waiting

Call waiting must be supported on the cell phone and enabled by the wireless service carrier.

- Press to answer an incoming call when another call is active. The original call is placed on hold.
- Press again to return to the original call.
- To ignore the incoming call, no action is required.
- Press to disconnect the current call and switch to the call on hold.

Three-Way Calling

Three-way calling must be supported on the cell phone and enabled by the wireless service carrier.

1. While on a call, press .
2. Say "Three-way call."
3. Use the dial or call command to dial the number of the third party to be called.
4. Once the call is connected, press to link all the callers together.

Ending a Call

Press to end a call.

Information Provided by: DEALER E-PROCESS

Muting a Call

During a call, all sounds from inside the vehicle can be muted so that the person on the other end of the call cannot hear them.

To mute a call, press ✆ 🎤, and then say “Mute Call.”

To cancel mute, press ✆ 🎤, and then say “Un-mute Call.”

Transferring a Call

Audio can be transferred between the Bluetooth system and the cell phone.

The cell phone must be paired and connected with the Bluetooth system before a call can be transferred. The connection process can take up to two minutes after the ignition is turned to ON/RUN.

To Transfer Audio From the Bluetooth System to a Cell Phone

During a call with the audio in the vehicle:

1. Press ✆ 🎤.
2. Say “Transfer Call.”

To Transfer Audio to the Bluetooth System From a Cell Phone

During a call with the audio on the cell phone, press ✆ 🎤. The audio transfers to the vehicle. If the audio does not transfer to the vehicle, use the audio transfer feature on the cell phone. See your cell phone manufacturer's user guide for more information.

Voice Pass-Thru

Voice pass-thru allows access to the voice recognition commands on the cell phone. See your cell phone manufacturer's user guide to see if the cell phone supports this feature.

To access contacts stored in the cell phone:

1. Press ✆ 🎤. For vehicles with a navigation system, say “Hands Free,” after the tone.
2. Say “Bluetooth.”
3. Say “Voice.” The cell phone's normal prompt messages will go through their cycle according to the phone's operating instructions.

Information Provided by: DEALER E-PROCESS

Dual Tone Multi-Frequency (DTMF) Tones

The Bluetooth system can send numbers and the numbers stored as name tags during a call. You can use this feature when calling a menu-driven phone system. Account numbers can also be stored for use.

Sending a Number or Name Tag During a Call

1. Press .
2. Say “Dial.”
3. Say the number or name tag to send.

Clearing the System

Unless information is deleted out of the in-vehicle Bluetooth system, it will be retained indefinitely. This includes all saved name tags in the phone book and phone pairing information. For information on how to delete this information, see the previous section “Deleting a Paired Phone” and the previous sections on deleting name tags.

Information Provided by:
DEALER E-PROCESS

Climate Controls

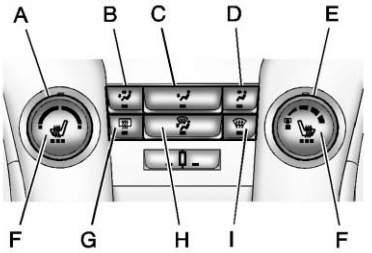
Climate Control Systems
Climate Control Systems 8-1
Automatic Climate Control System 8-3

Air Vents
Air Vents 8-6

Climate Control Systems

The heating, cooling, defrosting, and ventilation for the vehicle can be controlled with these systems.

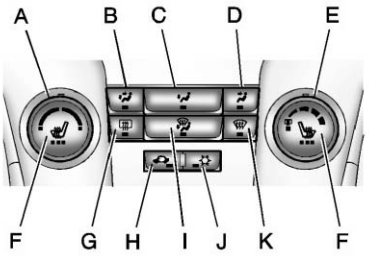
Vehicles Without Air Conditioning



A. Temperature Control
B. Bi-level Air Mode
C. Floor Air Mode
D. Vent Air Mode
E. Fan Control
F. Driver and Passenger Heated Seats (If Equipped)
G. Rear Window Defogger
H. Defog
I. Defrost

Information Provided by:
DEALER E-PROCESS

Vehicles With Air Conditioning



A. Temperature Control
B. Bi-level Air Mode
C. Floor Air Mode
D. Vent Air Mode
E. Fan Control
F. Driver and Passenger Heated Seats (If Equipped)
G. Rear Window Defogger
H. Recirculation
I. Defog
J. Air Conditioning
K. Defrost

(Fan Control): Turn to increase or decrease the fan speed.

Temperature Control: Turn to increase or decrease the temperature.

Air Delivery Mode Control: To change the current mode, press one of the following:

(Vent): Air is directed to the instrument panel outlets.

(Bi-level): Air is directed to the instrument panel outlets and the floor outlets.

(Floor): Air is directed to the floor outlets.

(Defog): Clears the windows of fog or moisture. Air is directed to the windshield and floor outlets.

(Defrost): Clears the windshield of fog or frost more quickly. Air is directed to the windshield and side window outlets.

For best results, clear all snow and ice from the windshield before defrosting.

Do not drive the vehicle until all the windows are clear.

Air Conditioning

(Air Conditioning, If Equipped): Press to turn the air conditioning on or off. If the fan is turned off or the outside temperature falls below freezing, the air conditioning compressor will not work.

(Recirculation, If Equipped): Press to turn on the recirculation. An indicator light comes on. Air is recirculated inside the vehicle. It helps to quickly cool the air inside the vehicle or prevent outside air and odors from entering.

Information Provided by: DEALER E-PROCESS

Rear Window Defogger

(Rear Defogger): Press to turn the rear window defogger on or off. The rear window defogger turns off after about 10 minutes. It can also be turned off by turning the ignition to ACC/ACCESSORY or LOCK/ OFF. If turned on again it runs for about five minutes before turning off.

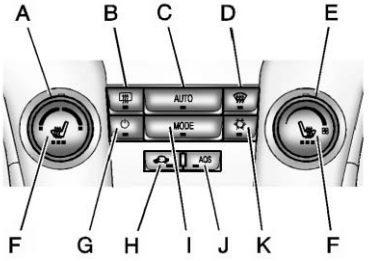
Do not drive the vehicle until all the windows are clear.

Notice: **Do not use a razor blade or sharp object to clear the inside rear window. Do not adhere anything to the defogger grid lines in the rear glass. These actions may damage the rear defogger. Repairs would not be covered by your warranty.**

Heated Seats (If Equipped): Press to turn the heated seats on or off. See *Heated Front Seats on page 3-7*

Automatic Climate Control System

The heating, cooling, and ventilation for the vehicle can be controlled with this system.



A. Temperature Control
B. Rear Window Defogger
C. AUTO
D. Defrost
E. Fan Control
F. Driver and Passenger Heated Seats
G. Power
H. Recirculation
I. MODE (Air Delivery Mode)
J. AQS (Air Quality Sensor)
K. Air Conditioning

Automatic Operation

The system automatically controls the fan speed, air delivery, air conditioning and recirculation in order to heat or cool the vehicle to the desired temperature.

When the indicator light is on, the system is in full automatic operation. If the air delivery mode or fan setting is manually adjusted, the auto indicator turns off and displays will show the selected settings.

Information Provided by: DEALER E-PROCESS

To place the system in automatic mode do the following:

1. Press AUTO.
2. Set the temperature. Allow the system time to stabilize. Then adjust the temperature as needed for best comfort.

English units can be changed to metric units through the Driver Information Center (DIC). See *Vehicle Personalization on page 5-34*.

Manual Operation

(Power): Press to turn the climate control system on or off.

Fan Control: Turn the knob clockwise or counterclockwise to increase or decrease the fan speed. The selected fan speed is indicated by a number on the display screen. Press AUTO to return to automatic operation.

MODE (Air Delivery Mode): Press to change the direction of the airflow. The current mode appears in the display screen. Automatic operation is cancelled and manual mode is initiated. Press AUTO to return to automatic operation.

To change the current mode, select one of the following:

(Vent): Air is directed to the instrument panel outlets.

(Bi-level): Air is divided between the instrument panel outlets and the floor outlets.

(Tri-Level): Air is divided between the windshield, instrument panel, and floor outlets.

(Floor): Air is directed to the floor outlets.

(Defog): Clears the windows of fog or moisture. Air is directed to the windshield and floor outlets.

(Defrost): Clears the windshield of fog or frost more quickly. Air is directed to the windshield.

(Air Conditioning): Press to turn the automatic air conditioning on or off. If the fan is turned off or the outside temperature falls below freezing, the air conditioning compressor will not run.

Press AUTO to return to automatic operation and the air conditioner runs as needed. When the indicator light is on, the air conditioner runs automatically to cool the air inside the vehicle or to dry the air needed to defog the windshield faster.

Information Provided by: DEALER E-PROCESS

(Recirculation): Press to turn on recirculation. An indicator light comes on. Air is recirculated to quickly cool the inside of the vehicle or prevent outside air and odors from entering.

Automatic Air Recirculation: When the AUTO indicator light is on, the air is automatically recirculated as needed to help quickly cool the inside of the vehicle.

AQS (Air Quality Sensor): For vehicles with an air quality sensor, the climate control system adjusts to limit some exhaust fumes from being pulled inside your vehicle.

Press the AQS button on the climate control to activate the air quality sensor. The air quality sensor will not maintain recirculation for an extended period to prevent the air inside the vehicle from becoming too dry or stuffy. To adjust the sensitivity of the Air Quality Control, see Climate and Air Quality under *Vehicle Personalization on page 5-34*.

Auto Defog: The climate control system may have a sensor to automatically detect high humidity inside the vehicle. When high humidity is detected, the climate control system may adjust to outside air supply and turn on the air conditioner. If the climate control system does not detect possible window fogging, it returns to normal operation. To turn Auto Defog off or on, see Climate and Air Quality under *Vehicle Personalization on page 5-34*.

Rear Window Defogger

(Rear Window Defogger): Press to turn the rear window defogger on or off.

The rear window defogger turns off automatically after about 10 minutes. If turned on again it runs for about five minutes before turning off.

The rear window defogger can be set to automatic operation, see Climate and Air Quality under *Vehicle Personalization on page 5-34*. When auto rear defog is selected, the rear window defogger turns on automatically when the interior temperature is cold and the outside temperature is about 40°F and below. The auto rear defogger turns off automatically after about 10 minutes. At higher speeds, the rear window defogger may stay on continuously.

Information Provided by: DEALER E-PROCESS

For vehicles with heated outside rearview mirrors, they turn on when the rear window defogger button is on and help to clear fog or frost from the surface of the mirrors. See *Heated Mirrors on page 2-12*.

Notice: **Do not try to clear frost or other material from the inside of the front windshield and rear window with a razor blade or anything else that is sharp. This may damage the rear window defogger grid and affect your radio's ability to pick up stations clearly. The repairs wouldn't be covered by your warranty.**

Heated Seats (If Equipped): Press to turn the heated seats on or off. See *Heated Front Seats on page 3-7*.

Remote Start Climate Control Operation: For vehicles with the remote vehicle start feature, the climate control system may run when the vehicle is started remotely. The system will default to a heating or cooling mode depending on the outside temperature and then go back to the previous settings. See *Remote Vehicle Start on page 2-5*.

The rear window defogger turns on if it is cold outside.

Sensors

The solar sensor, located on top of the instrument panel near the windshield, monitors the solar heat.

The climate control system uses the sensor information to adjust the temperature, fan speed, recirculation, and air delivery mode for best comfort.

If the sensor is covered, the automatic climate control system may not work properly.

Air Vents

Adjustable air vents are in the center and on the side of the instrument panel.



Move the slats (A) to change the direction of the airflow.

Information Provided by:
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Use the thumbwheels (B) near the air vents to open or close off the airflow.

Additional air vents are located beneath the windshield, driver and passenger side door windows, and in the footwells. These are fixed and cannot be adjusted.

Operation Tips

- Clear away any ice, snow, or leaves from air inlets at the base of the windshield that could block the flow of air into the vehicle.
- Keep the path under the front seats clear of objects to help circulate the air inside of the vehicle more effectively.
- Use of non-GM approved hood deflectors can adversely affect the performance of the system. Check with your dealer before adding equipment to the outside of the vehicle.

Information Provided by:
DEALER E-PROCESS

✍ NOTES

Information Provided by
DEALER E-PROCESS

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Driving Information

Defensive Driving

Defensive driving means “always expect the unexpected.” The first step in driving defensively is to wear the safety belt. See *Safety Belts on page 3-9*.

⚠ WARNING

Assume that other road users (pedestrians, bicyclists, and other drivers) are going to be careless and make mistakes. Anticipate what they might do and be ready. In addition:

- Allow enough following distance between you and the driver in front of you.
- Focus on the task of driving.

(Continued)

WARNING (Continued)

Driver distraction can cause collisions resulting in injury or possible death. These simple defensive driving techniques could save your life.

Drunk Driving

⚠ WARNING

Drinking and then driving is very dangerous. Your reflexes, perceptions, attentiveness, and judgment can be affected by even a small amount of alcohol. You can have a serious — or even fatal — collision if you drive after drinking. Do not drink and drive or ride with a driver who has been drinking. Ride home in a cab; or if you are with a group, designate a driver who will not drink.

Death and injury associated with drinking and driving is a global tragedy.

Alcohol affects four things that anyone needs to drive a vehicle: judgment, muscular coordination, vision, and attentiveness.

Police records show that almost 40 percent of all motor vehicle-related deaths involve alcohol. In most cases, these deaths are the result of someone who was drinking and driving. In recent years, more than 17,000 annual motor vehicle-related deaths have been associated with the use of alcohol, with about 250,000 people injured.

Information Provided by: DEALER E-PROCESS

For persons under 21, it is against the law in every U.S. state to drink alcohol. There are good medical, psychological, and developmental reasons for these laws.

The obvious way to eliminate the leading highway safety problem is for people never to drink alcohol and then drive.

Medical research shows that alcohol in a person's system can make crash injuries worse, especially injuries to the brain, spinal cord, or heart. This means that when anyone who has been drinking — driver or passenger — is in a crash, that person's chance of being killed or permanently disabled is higher than if the person had not been drinking.

Control of a Vehicle

The following three systems help to control the vehicle while driving — brakes, steering, and accelerator. At times, as when driving on snow or ice, it is easy to ask more of those control systems than the tires and road can provide. Meaning, you can lose control of the vehicle.

Adding non-dealer accessories can affect vehicle performance. See *Accessories and Modifications on page 10-3*.

Braking

See *Brake System Warning Light on page 5-16*.

Braking action involves perception time and reaction time. Deciding to push the brake pedal is perception time. Actually doing it is reaction time.

Average reaction time is about three-fourths of a second. But that is only an average. It might be less with one driver and as long as two or three seconds or more with another. Age, physical condition, alertness, coordination, and eyesight all play a part. So do alcohol, drugs, and frustration. But even in three-fourths of a second, a vehicle moving at 100 km/h (60 mph) travels 20 m (66 ft). That could be a lot of distance in an emergency, so keeping enough space between the vehicle and others is important.

And, of course, actual stopping distances vary greatly with the surface of the road, whether it is pavement or gravel; the condition of the road, whether it is wet, dry, or icy; tire tread; the condition of the brakes; the weight of the vehicle; and the amount of brake force applied.

Information Provided by: DEALER E-PROCESS

Avoid needless heavy braking. Some people drive in spurts — heavy acceleration followed by heavy braking — rather than keeping pace with traffic. This is a mistake. The brakes might not have time to cool between hard stops. The brakes will wear out much faster with a lot of heavy braking. Keeping pace with the traffic and allowing realistic following distances eliminates a lot of unnecessary braking. That means better braking and longer brake life.

If the engine ever stops while the vehicle is being driven, brake normally but do not pump the brakes. If the brakes are pumped, the pedal could get harder to push down. If the engine stops, there will still be some power brake assist but it will be used when the brake is applied. Once the power assist is used up, it can take longer to stop and the brake pedal will be harder to push.

Adding non-dealer accessories can affect vehicle performance. See *Accessories and Modifications on page 10-3*.

Steering

If the engine stalls while driving, the power steering assist system will continue to operate until you are able to stop the vehicle. If power steering assist is lost because the electric power steering system is not functioning, the vehicle can be steered but it will take more effort.

If you turn the steering wheel in either direction several times until it stops, or hold the steering wheel in the stopped position for an extended amount of time, you may notice a reduced amount of power steering assist. The normal amount of power steering assist should return shortly after a few normal steering movements.

The electric power steering system does not require regular maintenance. If you suspect steering system problems, such as abnormally high steering effort for a prolonged period of time, contact your dealer for service repairs.

Steering Tips

It is important to take curves at a reasonable speed.

Traction in a curve depends on the condition of the tires and the road surface, the angle at which the curve is banked, and vehicle speed. While in a curve, speed is the one factor that can be controlled.

If there is a need to reduce speed, do it before entering the curve, while the front wheels are straight.

Try to adjust the speed so you can drive through the curve. Maintain a reasonable, steady speed. Wait to accelerate until out of the curve, and then accelerate gently into the straightaway.

Information Provided by: DEALER E-PROCESS

Steering in Emergencies

There are times when steering can be more effective than braking. For example, you come over a hill and find a truck stopped in your lane, or a car suddenly pulls out from nowhere, or a child darts out from between parked cars and stops right in front of you. These problems can be avoided by braking — if you can stop in time. But sometimes you cannot stop in time because there is no room. That is the time for evasive action — steering around the problem.

The vehicle can perform very well in emergencies like these. First apply the brakes. See *Braking on page 9-3*. It is better to remove as much speed as possible from a collision. Then steer around the problem, to the left or right depending on the space available.



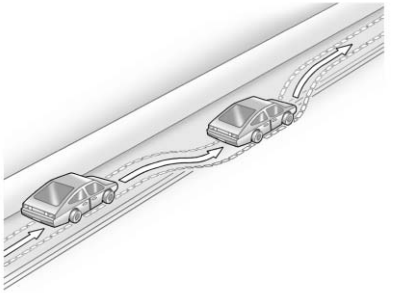
An emergency like this requires close attention and a quick decision. If holding the steering wheel at the recommended 9 and 3 o'clock positions, it can be turned a full 180 degrees very quickly without removing either hand. But you have to act fast, steer quickly, and just as quickly straighten the wheel once you have avoided the object.

The fact that such emergency situations are always possible is a good reason to practice defensive driving at all times and wear safety belts properly.

Information Provided by:
DEALER E-PROCESS

Off-Road Recovery

The vehicle's right wheels can drop off the edge of a road onto the shoulder while driving.



If the level of the shoulder is only slightly below the pavement, recovery should be fairly easy. Ease off the accelerator and then, if there is nothing in the way, steer so that the vehicle straddles the edge of the pavement. Turn the steering wheel 8 to 13 cm (3 to 5 in), about one-eighth turn, until the right front

tire contacts the pavement edge. Then turn the steering wheel to go straight down the roadway.

Loss of Control

Let us review what driving experts say about what happens when the three control systems — brakes, steering, and acceleration — do not have enough friction where the tires meet the road to do what the driver has asked.

In any emergency, do not give up. Keep trying to steer and constantly seek an escape route or area of less danger.

Skidding

In a skid, a driver can lose control of the vehicle. Defensive drivers avoid most skids by taking reasonable care suited to existing conditions, and by not overdriving those conditions. But skids are always possible.

The three types of skids correspond to the vehicle's three control systems. In the braking skid, the wheels are not rolling. In the steering or cornering skid, too much speed or steering in a curve causes tires to slip and lose cornering force. And in the acceleration skid, too much throttle causes the driving wheels to spin.

If the vehicle starts to slide, ease your foot off the accelerator pedal and quickly steer the way you want the vehicle to go. If you start steering quickly enough, the vehicle may straighten out. Always be ready for a second skid if it occurs.

Of course, traction is reduced when water, snow, ice, gravel, or other material is on the road. For safety, slow down and adjust your driving to these conditions. It is important to slow down on slippery surfaces because stopping distance is longer and vehicle control more limited.

While driving on a surface with reduced traction, try to avoid sudden steering, acceleration, or braking, including reducing vehicle speed by shifting to a lower gear. Any sudden changes could cause the tires to slide. You might not realize the surface is slippery until the vehicle is skidding. Learn to recognize warning clues — such as enough water, ice, or packed snow on the road to make a mirrored surface — and slow down when you have any doubt.

Remember: Antilock brakes help avoid only the braking skid.

Information Provided by:
DEALER E-PROCESS

Driving on Wet Roads

Rain and wet roads can reduce vehicle traction and affect your ability to stop and accelerate. Always drive slower in these types of driving conditions and avoid driving through large puddles and deep-standing or flowing water.

⚠ WARNING

Wet brakes can cause crashes. They might not work as well in a quick stop and could cause pulling to one side. You could lose control of the vehicle.

After driving through a large puddle of water or a car/vehicle wash, lightly apply the brake pedal until the brakes work normally.

Flowing or rushing water creates strong forces. Driving through flowing water could cause the vehicle to be carried away. If this happens, you and other vehicle occupants could drown. Do not ignore police warnings and be very cautious about trying to drive through flowing water.

Hydroplaning

Hydroplaning is dangerous. Water can build up under the vehicle's tires so they actually ride on the water. This can happen if the road is wet enough and you are going fast enough. When the vehicle is hydroplaning, it has little or no contact with the road.

There is no hard and fast rule about hydroplaning. The best advice is to slow down when the road is wet.

Information Provided by: DEALER E-PROCESS

Other Rainy Weather Tips

Besides slowing down, other wet weather driving tips include:

- Allow extra following distance.
- Pass with caution.
- Keep windshield wiping equipment in good shape.
- Keep the windshield washer fluid reservoir filled.
- Have good tires with proper tread depth. See *Tires on page 10-42*.
- Turn off cruise control.

Highway Hypnosis

Always be alert and pay attention to your surroundings while driving. If you become tired or sleepy, find a safe place to park the vehicle and rest.

Other driving tips include:

- Keep the vehicle well ventilated.
- Keep interior temperature cool.
- Keep your eyes moving — scan the road ahead and to the sides.
- Check the rearview mirror and vehicle instruments often.

Hill and Mountain Roads

Driving on steep hills or through mountains is different than driving on flat or rolling terrain. Tips for driving in these conditions include:

- Keep the vehicle serviced and in good shape.
- Check all fluid levels and brakes, tires, cooling system, and transmission.
- Shift to a lower gear when going down steep or long hills.

⚠ WARNING

If you do not shift down, the brakes could get so hot that they would not work well. You would then have poor braking or even none going down a hill. You could crash. Shift down to let the engine assist the brakes on a steep downhill slope.

Information Provided by: DEALER E-PROCESS

⚠ WARNING

Coasting downhill in N (Neutral) or with the ignition off is dangerous. The brakes will have to do all the work of slowing down and they could get so hot that they would not work well. You would then have poor braking or even none going down a hill. You could crash. Always have the engine running and the vehicle in gear when going downhill.

- Stay in your own lane. Do not swing wide or cut across the center of the road. Drive at speeds that let you stay in your own lane.
- Top of hills: Be alert — something could be in your lane (stalled car, accident).
- Pay attention to special road signs (falling rocks area, winding roads, long grades, passing or no-passing zones) and take appropriate action.

Winter Driving

Driving on Snow or Ice

Drive carefully when there is snow or ice between the tires and the road, creating less traction or grip. Wet ice can occur at about 0°C (32°F) when freezing rain begins to fall, resulting in even less traction. Avoid driving on wet ice or in freezing rain until roads can be treated with salt or sand.

Drive with caution, whatever the condition. Accelerate gently so traction is not lost. Accelerating too quickly causes the wheels to spin and makes the surface under the tires slick, so there is even less traction. Try not to break the fragile traction. If you accelerate too fast, the drive wheels will spin and polish the surface under the tires even more.

The *Antilock Brake System (ABS) on page 9-31* improves vehicle stability during hard stops on slippery roads, but apply the brakes sooner than when on dry pavement.

Allow greater following distance on any slippery road and watch for slippery spots. Icy patches can occur on otherwise clear roads in shaded areas. The surface of a curve or an overpass can remain icy when the surrounding roads are clear. Avoid sudden steering maneuvers and braking while on ice.

Turn off cruise control on slippery surfaces.

Information Provided by: DEALER E-PROCESS

Blizzard Conditions

Being stuck in snow can be a serious situation. Stay with the vehicle unless there is help nearby. If possible, use the *Roadside Assistance Program on page 13-6*. To get help and keep everyone in the vehicle safe:

- Turn on the hazard warning flashers.
- Tie a red cloth to an outside mirror.

⚠ WARNING

Snow can trap engine exhaust under the vehicle. This may cause exhaust gases to get inside. Engine exhaust contains Carbon Monoxide (CO) which cannot be seen or smelled. It can cause unconsciousness and even death.

(Continued)

WARNING (Continued)

If the vehicle is stuck in the snow:

- Clear away snow from around the base of your vehicle, especially any that is blocking the exhaust pipe.
- Check again from time to time to be sure snow does not collect there.
- Open a window about 5 cm (2 in) on the side of the vehicle that is away from the wind to bring in fresh air.
- Fully open the air outlets on or under the instrument panel.
- Adjust the climate control system to a setting that circulates the air inside the vehicle and set the fan speed to the highest setting. See Climate Control System in the Index.

(Continued)

WARNING (Continued)

For more information about carbon monoxide, see *Engine Exhaust on page 9-24*.

Snow can trap exhaust gases under your vehicle. This can cause deadly CO (Carbon Monoxide) gas to get inside. CO could overcome you and kill you. You cannot see it or smell it, so you might not know it is in your vehicle. Clear away snow from around the base of your vehicle, especially any that is blocking the exhaust.

Information Provided by: DEALER E-PROCESS

Run the engine for short periods only as needed to keep warm, but be careful.

To save fuel, run the engine for only short periods as needed to warm the vehicle and then shut the engine off and close the window most of the way to save heat. Repeat this until help arrives but only when you feel really uncomfortable from the cold. Moving about to keep warm also helps.

If it takes some time for help to arrive, now and then when you run the engine, push the accelerator pedal slightly so the engine runs faster than the idle speed. This keeps the battery charged to restart the vehicle and to signal for help with the headlamps. Do this as little as possible to save fuel.

If the Vehicle is Stuck

Slowly and cautiously spin the wheels to free the vehicle when stuck in sand, mud, ice, or snow.

If stuck too severely for the traction system to free the vehicle, turn the traction system off and use the rocking method.

⚠ WARNING

If the vehicle's tires spin at high speed, they can explode, and you or others could be injured. The vehicle can overheat, causing an engine compartment fire or other damage. Spin the wheels as little as possible and avoid going above 55 km/h (35 mph).

For information about using tire chains on the vehicle, see *Tire Chains on page 10-65*.

Information Provided by: DEALER E-PROCESS

Rocking the Vehicle to Get it Out

Turn the steering wheel left and right to clear the area around the front wheels. Turn off any traction system. Shift back and forth between R (Reverse) and a forward gear, or with a manual transmission, between 1 (First) or 2 (Second) and R (Reverse), spinning the wheels as little as possible. To prevent transmission wear, wait until the wheels stop spinning before shifting gears. Release the accelerator pedal while shifting, and press lightly on the accelerator pedal when the transmission is in gear. Slowly spinning the wheels in the forward and reverse directions causes a rocking motion that could free the vehicle. If that does not get the vehicle out after a few tries, it might need to be towed out. If the vehicle does need to be towed out, see *Towing the Vehicle on page 10-87*.

Vehicle Load Limits

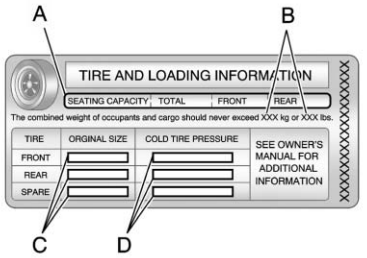
It is very important to know how much weight the vehicle can carry. This weight is called the vehicle capacity weight and includes the weight of all occupants, cargo and all nonfactory-installed options. Two labels on the vehicle show how much weight it may properly carry, the Tire and Loading Information label and the Certification label.

⚠ WARNING

Do not load the vehicle any heavier than the Gross Vehicle Weight Rating (GVWR), or either the maximum front or rear Gross Axle Weight Rating (GAWR). If you do, parts on the vehicle can break, and it can change the way the vehicle handles. These could cause you to lose control and crash. Also, overloading can shorten the life of the vehicle.

Information Provided by: DEALER E-PROCESS

Tire and Loading Information Label



Label Example

A vehicle-specific Tire and Loading Information label is attached to the vehicle center pillar (B-pillar). With the driver door open, you will find the label attached below the door lock post. The Tire and Loading Information label shows the number of occupant seating positions (A), and the maximum vehicle capacity weight (B) in kilograms and pounds.

The Tire and Loading Information label also shows the tire size of the original equipment tires (C) and the recommended cold tire inflation pressures (D). For more information on tires and inflation see *Tires on page 10-42* and *Tire Pressure on page 10-50*.

There is also important loading information on the Certification label. It tells you the Gross Vehicle Weight Rating (GVWR) and the Gross Axle Weight Rating (GAWR) for the front and rear axle; see “Certification Label” later in this section.

Steps for Determining Correct Load Limit

1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs” on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.

Information Provided by:
DEALER E-PROCESS

4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1400 lbs and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs (1400 − 750 (5 x 150) = 650 lbs).
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, the load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

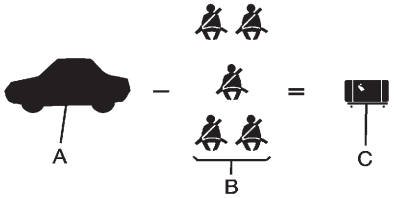
See *Trailer Towing (Except Fuel Economy Model) on page 9-50* or *Trailer Towing (Fuel Economy Model) on page 9-51* for important information on towing a trailer, towing safety rules and trailering tips.



Example 1

A. Vehicle Capacity Weight for Example 1 = 453 kg (1,000 lbs).
B. Subtract Occupant Weight @ 68 kg (150 lbs) × 2 = 136 kg (300 lbs).
C. Available Occupant and Cargo Weight = 317 kg (700 lbs).

Information Provided by: DEALER E-PROCESS

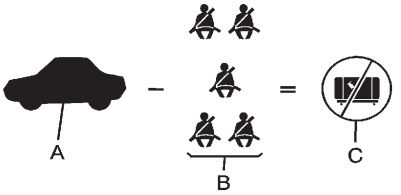


Example 2

A. Vehicle Capacity Weight for Example 2 = 453 kg (1,000 lbs).

B. Subtract Occupant Weight @ 68 kg (150 lbs) × 5 = 340 kg (750 lbs).

C. Available Cargo Weight = 113 kg (250 lbs).



Example 3

A. Vehicle Capacity Weight for Example 3 = 453 kg (1,000 lbs).

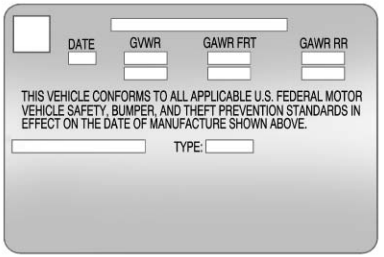
B. Subtract Occupant Weight @ 91 kg (200 lbs) × 5 = 453 kg (1,000 lbs).

C. Available Cargo Weight = 0 kg (0 lbs).

Refer to the vehicle's Tire and Loading Information label for specific information about the vehicle's capacity weight and seating positions. The combined weight of the driver, passengers, and cargo should never exceed the vehicle's capacity weight.

Information Provided by:
DEALER E-PROCESS

Certification Label



Label Example

A vehicle-specific Certification label, found on the vehicle center pillar (B-pillar), tells you the gross weight capacity of the vehicle, called the Gross Vehicle Weight Rating (GVWR). The GVWR includes the weight of the vehicle, all occupants, fuel, and cargo. Never exceed the GVWR for the vehicle, or the Gross Axle Weight Rating (GAWR) for either the front or rear axle.

And, if you do have a heavy load, you should spread it out. See “Steps for Determining Correct Load Limit” earlier in this section.

⚠ WARNING

Do not load the vehicle any heavier than the Gross Vehicle Weight Rating (GVWR), or either the maximum front or rear Gross Axle Weight Rating (GAWR). If you do, parts on the vehicle can break, and it can change the way the vehicle handles. These could cause you to lose control and crash. Also, overloading can shorten the life of the vehicle.

If you put things inside the vehicle — like suitcases, tools, packages, or anything else — they will go as fast as the vehicle goes. If you have to stop or turn quickly, or if there is a crash, they will keep going.

⚠ WARNING

Things you put inside the vehicle can strike and injure people in a sudden stop or turn, or in a crash.

- Put things in the cargo area of the vehicle. In the cargo area, put them as far forward as you can. Try to spread the weight evenly.

(Continued)

Information Provided by: DEALER E-PROCESS

WARNING (Continued)

- Never stack heavier things, like suitcases, inside the vehicle so that some of them are above the tops of the seats.
- Do not leave an unsecured child restraint in the vehicle.
- When you carry something inside the vehicle, secure it whenever you can.
- Do not leave a seat folded down unless you need to.

Starting and Operating

New Vehicle Break-In

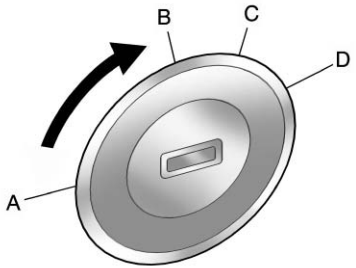
Notice: **The vehicle does not need an elaborate break-in. But it will perform better in the long run if you follow these guidelines:**

- **Do not drive at any one constant speed, fast or slow, for the first 805 km (500 miles). Do not make full-throttle starts. Avoid downshifting to brake or slow the vehicle.**
- **Avoid making hard stops for the first 322 km (200 miles) or so. During this time the new brake linings are not yet broken in. Hard stops with new linings can mean premature wear and earlier replacement. Follow this breaking-in guideline every time you get new brake linings.**

Following break-in, engine speed and load can be gradually increased.

Information Provided by: DEALER E-PROCESS

Ignition Positions



The ignition switch has four different positions.

Notice: **Using a tool to force the key to turn in the ignition could cause damage to the switch or break the key. Use the correct key, make sure it is all the way in, and turn it only with your hand. If the key cannot be turned by hand, see your dealer.**

The key must be fully extended to start the vehicle.

To shift out of P (Park), turn the ignition to ON/RUN and apply the brake pedal.

A (STOPPING THE ENGINE/ LOCK/OFF): When the vehicle is stopped, turn the ignition switch to LOCK/OFF to turn the engine off. Retained Accessory Power (RAP) will remain active. See *Retained Accessory Power (RAP) on page 9-22*.

This is the only position from which the key can be removed. This locks the steering wheel, ignition and automatic transmission.

Do not turn the engine off when the vehicle is moving. This will cause a loss of power assist in the brake and steering systems and disable the airbags.

In an emergency, if the vehicle must be shut off while driving:

1. Brake using a firm and steady pressure. Do not pump the brakes repeatedly. This may deplete power assist, requiring increased brake pedal force.
2. Shift the vehicle to neutral. This can be done while the vehicle is moving. After shifting to neutral, continue to firmly apply the brakes and steer the vehicle to a safe location.
3. Come to a complete stop. Shift to P (Park) with an automatic transmission, or neutral with a manual transmission. Turn the ignition to LOCK/OFF.
4. Set the parking brake. See *Parking Brake on page 9-32*.

Information Provided by:
DEALER E-PROCESS

⚠ WARNING

Turning off the vehicle while moving may cause loss of power assist in the brake and steering systems and disable the airbags. While driving, only shut the vehicle off in an emergency.

5. If the vehicle must be shut off while driving, turn the ignition to ACC/ACCESSORY.

The ignition switch can bind in the LOCK/OFF position with the wheels turned off center. If this happens, move the steering wheel from right to left while turning the key to ACC/ACCESSORY. If this does not work, then the vehicle needs service.

B (ACC/ACCESSORY): This position provides power to some of the electrical accessories. It unlocks the steering wheel and ignition. To move the key from ACC/ACCESSORY to LOCK/OFF, push in the key and then turn it to LOCK/OFF.

C (ON/RUN): The ignition switch stays in this position when the engine is running. This position can be used to operate the electrical accessories, including the ventilation fan and 12 volt power outlet, as well as to display some warning and indicator lights. The transmission is also unlocked in this position on automatic transmission vehicles.

The battery could be drained if the key is left in the ACC/ACCESSORY or ON/RUN position with the engine off. The vehicle might not start if the battery is allowed to drain for an extended period of time.

D (START): This position starts the engine. When the engine starts, release the key. The ignition switch will return to ON/RUN for normal driving.

A warning tone sounds when the driver door is opened if the ignition is still in ACC/ACCESSORY and the key is in the ignition.

Starting the Engine

Place the transmission in the proper gear.

Automatic Transmission

Move the shift lever to P (Park) or N (Neutral). The engine will not start in any other position. To restart the vehicle when it is already moving, use N (Neutral) only.

Notice: **Do not try to shift to P (Park) if the vehicle is moving. If you do, you could damage the transmission. Shift to P (Park) only when the vehicle is stopped.**

Information Provided by: DEALER E-PROCESS

Manual Transmission

The shift lever should be in N (Neutral) and the parking brake engaged. Hold the clutch pedal down to the floor and start the engine. The vehicle will not start if the clutch pedal is not all the way down.

Starting Procedure

1. With your foot off the accelerator pedal, turn the ignition key to START. When the engine starts, let go of the key. The idle speed will go down as the engine warms. Do not race the engine immediately after starting it. Allow the oil to warm up and lubricate all moving parts.

 The vehicle has a Computer-Controlled Cranking System. This feature assists in starting the engine and protects components. If the ignition key is turned to the START position, and then released when the engine begins cranking, the engine will continue cranking for a few seconds or until the vehicle starts. If the engine does not start and the key is held in START for many seconds, cranking stops after 15 seconds to prevent cranking motor damage. To prevent gear damage, this system also prevents cranking if the engine is already running. Engine cranking can be stopped by turning the ignition switch to ACC/ACCESSORY or LOCK/OFF.

Notice: **Cranking the engine for long periods of time, by returning the key to the START position immediately after cranking has ended, can overheat and damage the cranking motor, and drain the battery. Wait at least 15 seconds between each try, to let the cranking motor cool down.**

2. If the engine does not start after 5-10 seconds, especially in very cold weather (below 0°F or −18°C), it could be flooded with too much gasoline. Push the accelerator pedal all the way to the floor and holding it there as you hold the key in START for a maximum of 15 seconds. Wait at least 15 seconds between each try, to allow the cranking motor to cool. When the engine starts, let go of the key and accelerator. If the vehicle starts briefly but then stops again, repeat the procedure. This clears the extra gasoline from the engine. Do not race the engine immediately after starting it. Operate the engine and transmission gently until the oil warms up and lubricates all moving parts.

Notice: **The engine is designed to work with the electronics in the vehicle. If you add electrical parts or accessories, you could change the way the engine operates.**

Information Provided by: DEALER E-PROCESS

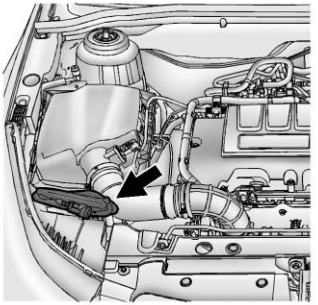
Before adding electrical equipment, check with your dealer. If you do not, the engine might not perform properly. Any resulting damage would not be covered by the vehicle warranty.

Engine Heater

The engine heater, if available, can help in cold weather conditions at or below −18°C (0°F) for easier starting and better fuel economy during engine warm-up. Plug in the heater at least four hours before starting the vehicle. An internal thermostat in the plug-end of the cord will prevent engine heater operation at temperatures above −18°C (0°F).

To Use The Engine Heater

1. Turn off the engine.



1.4L Engine Shown, 1.8L Similar

2. Open the hood and unwrap the electrical cord. The electrical cord is located on the passenger side of the engine compartment, in front of the air cleaner.
3. Plug it into a normal, grounded 110-volt AC outlet.

⚠ WARNING

Plugging the cord into an ungrounded outlet could cause an electrical shock. Also, the wrong kind of extension cord could overheat and cause a fire. You could be seriously injured. Plug the cord into a properly grounded three-prong 110-volt AC outlet. If the cord will not reach, use a heavy-duty three-prong extension cord rated for at least 15 amps.

4. Before starting the engine, be sure to unplug and store the cord as it was before to keep it away from moving engine parts. If you do not it could be damaged.

The length of time the heater should remain plugged in depends on several factors. Ask a dealer in the area where you will be parking the vehicle for the best advice on this.

Information Provided by: DEALER E-PROCESS

Retained Accessory Power (RAP)

These vehicle accessories may be used for up to 10 minutes after the engine is turned off:

- Audio System
- Power Windows
- Sunroof

The power windows and sunroof will continue to work for up to 10 minutes or until any door is opened. The radio will work when the key is in ON/RUN or ACC/ACCESSORY. Once the key is turned from ON/RUN to LOCK/OFF, the radio will continue to work for 10 minutes, or until the driver door is opened or the key is removed from the ignition.

Shifting Into Park (Automatic Transmission)

⚠ WARNING

It can be dangerous to get out of the vehicle if the shift lever is not fully in P (Park) with the parking brake firmly set. The vehicle can roll. If you have left the engine running, the vehicle can move suddenly. You or others could be injured. To be sure the vehicle will not move, even when you are on fairly level ground, use the steps that follow. If you are pulling a trailer, see *Driving Characteristics and Towing Tips on page 9-46*.

Use this procedure to shift into P (Park):

1. Hold the brake pedal down and set the parking brake.

 See *Parking Brake on page 9-32* for more information.

2. Hold the button on the shift lever and push the lever toward the front of the vehicle into P (Park).
3. Turn the ignition to LOCK/OFF.
4. Remove the key.

Leaving the Vehicle With the Engine Running

⚠ WARNING

It can be dangerous to leave the vehicle with the engine running. The vehicle could move suddenly if the shift lever is not fully in P (Park) with the parking brake firmly set. And, if you leave the vehicle with the engine running, it could overheat and even catch fire. You or others could be injured. Do not leave the vehicle with the engine running.

If you have to leave the vehicle with the engine running, the vehicle must be in P (Park) and the parking brake set.

Information Provided by: DEALER E-PROCESS

Release the button and check that the shift lever cannot be moved out of P (Park).

Torque Lock

Torque lock is when the weight of the vehicle puts too much force on the parking pawl in the transmission. This happens when parking on a hill and shifting the transmission into P (Park) is not done properly and then it is difficult to shift out of P (Park). To prevent torque lock, set the parking brake and then shift into P (Park). To find out how, see “Shifting Into Park” listed previously.

If torque lock does occur, the vehicle may need to be pushed uphill by another vehicle to relieve the parking pawl pressure, so you can shift out of P (Park).

Shifting Out of Park

This vehicle is equipped with an electronic shift lock release system. The shift lock release is designed to:

- Prevent ignition key removal unless the shift lever is in P (Park) with the shift lever button fully released.
- Prevent movement of the shift lever out of P (Park) unless the ignition is in ON/RUN and the brake pedal is applied.

The shift lock release is always functional except in the case of an uncharged or low voltage (less than 9 volt) battery.

If the vehicle has an uncharged battery or a battery with low voltage, try charging or jump starting the battery. See *Jump Starting on page 10-84*

To shift out of P (Park):

1. Apply the brake pedal.
2. Turn the ignition to ON/RUN.
3. Press the shift lever button.
4. Move the shift lever to the desired position.

If still unable to shift out of P (Park):

1. Fully release the shift lever button.
2. Hold the brake pedal down and press the shift lever button again.
3. Move the shift lever to the desired position.

If the shift lever still cannot be moved from P (Park), see your dealer for service.

Information Provided by: DEALER E-PROCESS

Parking

If the vehicle has a manual transmission, before getting out of the vehicle, move the shift lever into R (Reverse), and firmly apply the parking brake. Once the shift lever has been placed into R (Reverse) with the clutch pedal pressed in, turn the ignition key to LOCK/OFF, remove the key and release the clutch.

If parking on a hill, or if the vehicle is pulling a trailer, see *Driving Characteristics and Towing Tips on page 9-46*.

Parking Over Things That Burn

⚠ WARNING

Things that can burn could touch hot exhaust parts under the vehicle and ignite. Do not park over papers, leaves, dry grass, or other things that can burn.

Engine Exhaust

⚠ WARNING

Engine exhaust contains Carbon Monoxide (CO) which cannot be seen or smelled. Exposure to CO can cause unconsciousness and even death.

Exhaust may enter the vehicle if:

- The vehicle idles in areas with poor ventilation (parking garages, tunnels, deep snow that may block underbody airflow or tail pipes).
- The exhaust smells or sounds strange or different.
- The exhaust system leaks due to corrosion or damage.
- The vehicle's exhaust system has been modified, damaged or improperly repaired.

(Continued)

WARNING (Continued)

- There are holes or openings in the vehicle body from damage or after-market modifications that are not completely sealed.

If unusual fumes are detected or if it is suspected that exhaust is coming into the vehicle:

- Drive it only with the windows completely down.
- Have the vehicle repaired immediately.

Never park the vehicle with the engine running in an enclosed area such as a garage or a building that has no fresh air ventilation.

Information Provided by: DEALER E-PROCESS

Running the Vehicle While Parked

It is better not to park with the engine running. But if you ever have to, here are some things to know.

⚠ WARNING

Idling a vehicle in an enclosed area with poor ventilation is dangerous. Engine exhaust may enter the vehicle. Engine exhaust contains Carbon Monoxide (CO) which cannot be seen or smelled. It can cause unconsciousness and even death. Never run the engine in an enclosed area that has no fresh air ventilation. For more information, see *Engine Exhaust on page 9-24*.

⚠ WARNING

It can be dangerous to get out of the vehicle if the automatic transmission shift lever is not fully in P (Park) with the parking brake firmly set. The vehicle can roll. Do not leave the vehicle when the engine is running unless you have to. If you have left the engine running, the vehicle can move suddenly. You or others could be injured. To be sure the vehicle will not move, even when it is on fairly level ground, always set the parking brake and move the automatic transmission shift lever to P (Park), or the manual transmission shift lever to Neutral.

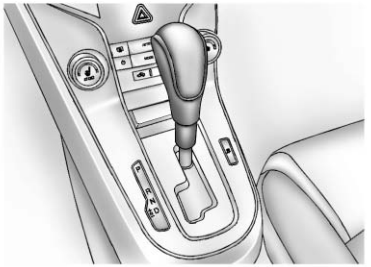
Follow the proper steps to be sure the vehicle will not move. If the vehicle has an automatic transmission, see *Shifting Into Park (Automatic Transmission) on page 9-22*. If the vehicle has a manual transmission, see *Parking on page 9-24*.

If parking on a hill, or if the vehicle is pulling a trailer, see *Driving Characteristics and Towing Tips on page 9-46*.

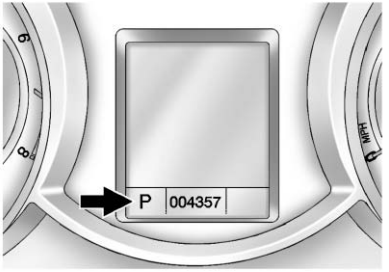
Information Provided by: DEALER E-PROCESS

Automatic Transmission

The automatic transmission has a shift lever located on the console between the seats.



The selected gear is also shown in the instrument cluster.



English Shown, Metric Similar

P (Park): This position locks the drive wheels. It is the best position to use when starting the engine because the vehicle cannot move easily.

⚠ WARNING

It is dangerous to get out of the vehicle if the shift lever is not fully in P (Park) with the parking brake firmly set. The vehicle can roll.

Do not leave the vehicle when the engine is running unless you have to. If you have left the engine running, the vehicle can move suddenly. You or others could be injured. To be sure the vehicle will not move, even when you are on fairly level ground, always set the parking brake and move the shift lever to P (Park). See *Shifting Into Park (Automatic Transmission) on page 9-22*.

Make sure the shift lever is fully in P (Park) before starting the engine. The vehicle has an automatic transmission shift lock control system. The regular brake must be fully applied first and then the shift lever button pressed before shifting

Information Provided by: DEALER E-PROCESS

from P (Park) when the ignition key is in ON/RUN. If you cannot shift out of P (Park), ease pressure on the shift lever, then push the shift lever all the way into P (Park) as you maintain brake application. Then press the shift lever button and move the shift lever into another gear. See *Shifting Out of Park on page 9-23*.

R (Reverse): Use this gear to back up.

Notice: **Shifting to R (Reverse) while the vehicle is moving forward could damage the transmission. The repairs would not be covered by the vehicle warranty. Shift to R (Reverse) only after the vehicle is stopped.**

To rock the vehicle back and forth to get out of snow, ice or sand without damaging the transmission, see *If the Vehicle is Stuck on page 9-11*.

N (Neutral): In this position, the engine does not connect with the wheels. To restart the engine when the vehicle is already moving, use N (Neutral) only. Also, use N (Neutral) when the vehicle is being towed.

The vehicle has an automatic neutral shift feature which allows the transmission to automatically shift to N (Neutral) when the vehicle is stopped with a forward gear engaged. The reduced load on the engine improves vehicle fuel economy.

⚠ WARNING

Shifting into a drive gear while the engine is running at high speed is dangerous. Unless your foot is firmly on the brake pedal, the vehicle could move very rapidly. You could lose control and hit people or objects. Do not shift into a drive gear while the engine is running at high speed.

Notice: **Shifting out of P (Park) or N (Neutral) with the engine running at high speed may damage the transmission. The repairs would not be covered by the vehicle warranty. Be sure the engine is not running at high speed when shifting the vehicle.**

D (Drive): This position is for normal driving. It provides the best fuel economy. If more power is needed for passing, and the vehicle is:

- Going less than 56 km/h (35 mph), push the accelerator pedal about halfway down.
- Going about 56 km/h (35 mph) or more, push the accelerator all the way down.

Notice: **If the vehicle seems to accelerate slowly or not shift gears when you go faster, and you continue to drive the vehicle that way, you could damage the transmission. Have the vehicle serviced right away.**

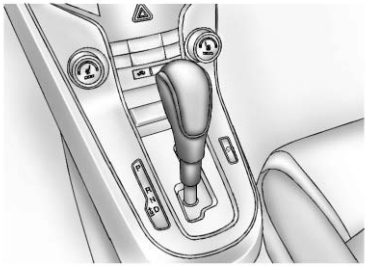
Information Provided by: DEALER E-PROCESS

Manual Mode

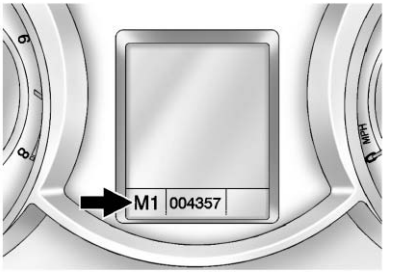
Driver Shift Control (DSC)

Notice: **If you drive the vehicle at a high rpm without upshifting while using Driver Shift Control (DSC), you could damage the vehicle. Always upshift when necessary while using DSC.**

Driver Shift Control (DSC) allows you to shift an automatic transmission similar to a manual transmission. To use the DSC feature:



1. Move the shift lever from D (Drive) to the left into the (+) or (−) manual position.



2. Press the shift lever forward (+) to upshift or rearward (−) to downshift. An M and the current gear will be displayed in the DIC.

While using the DSC feature, the vehicle will have firmer, quicker shifting. You can use this for sport driving or when climbing or descending hills, to stay in gear longer, or to down shift for more power or engine braking.

Information Provided by:
DEALER E-PROCESS

The transmission will only allow you to shift into gears appropriate for the vehicle speed and engine revolutions per minute (rpm). The transmission will not automatically shift to the next lower gear if the engine rpm is too high, nor to the next higher gear when the maximum engine rpm is reached.

If shifting is prevented for any reason, the currently selected gear will flash multiple times, indicating that the transmission has not shifted gears.

While in the DSC mode, the transmission will automatically downshift when the vehicle comes to a stop. This will allow for more power during take-off.

When accelerating the vehicle from a stop in snowy and icy conditions, you may want to shift into second gear. A higher gear allows the vehicle to gain more traction on slippery surfaces.

Manual Transmission

Shift Pattern



All Models Except Fuel Economy Model



Fuel Economy Model

These are the shift patterns for the six-speed manual transmissions.

To operate the transmissions:

Notice: **Do not rest your hand on the shift lever while driving. The pressure could cause premature wear in the transmission. The repairs would not be covered by the vehicle warranty.**

Notice: **Do not rest your foot on the clutch pedal while driving or while stopped. The pressure can cause premature wear in the clutch. The repairs would not be covered by the vehicle warranty.**

1 (First): Press the clutch pedal fully to the pedal stop and shift into 1 (First). Then slowly let up on the clutch pedal as you press the accelerator pedal.

If you come to a complete stop and it is hard to shift into 1 (First), put the shift lever in Neutral and let up on the clutch. Press the clutch pedal back down. Then shift into 1 (First).

2 (Second): Press the clutch pedal fully to the pedal stop as you let up on the accelerator pedal and shift into 2 (Second). Then, slowly let up on the clutch pedal as you press the accelerator pedal.

Information Provided by:
DEALER E-PROCESS

3 (Third), 4 (Fourth), 5 (Fifth) and 6 (Sixth): Shift into 3 (Third), 4 (Fourth), 5 (Fifth) and 6 (Sixth) the same way you do for 2 (Second). Slowly let up on the clutch pedal as you press the accelerator pedal.

For the best fuel economy, use 6 (Sixth) gear whenever vehicle speed and driving conditions allow.

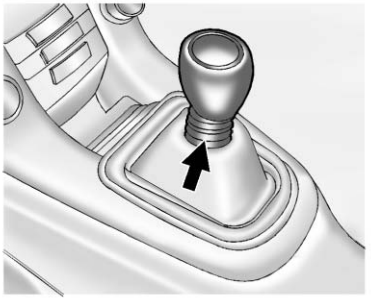


An up-shift light in the instrument cluster indicates when to shift to the next higher gear for the best fuel economy.

During normal driving, upshifts should occur between 1,300 and 2,500 rpm, and downshifts should occur between 1,500 and 1,000 rpm.

To stop, let up on the accelerator pedal and press the brake pedal. Just before the vehicle stops, press the clutch pedal and the brake pedal, and shift to Neutral.

Neutral: Use this position when you start or idle the engine. The shift lever is in Neutral when it is centered in the shift pattern, not in any gear.



R (Reverse): To back up, with the vehicle at a complete stop, press down the clutch pedal. Then pull up the ring on the shift lever, and shift into R (Reverse). Let up on the clutch pedal slowly while pressing the accelerator pedal.

If the gear does not engage, shift the transmission to neutral, release the clutch pedal and press it back down. Repeat the gear selection.

⚠ WARNING

If you skip a gear when you downshift, you could lose control of the vehicle. You could injure yourself or others. Do not shift down more than one gear at a time when you downshift.

Notice: **Do not skip gears while upshifting. This can cause premature wear in the transmission. The repairs would not be covered by the vehicle warranty.**

Information Provided by DEALER E-PROCESS

Brakes

Antilock Brake System (ABS)

This vehicle has the Antilock Brake System (ABS), an advanced electronic braking system that helps prevent a braking skid.

When the engine is started and the vehicle begins to drive away, ABS checks itself. A momentary motor or clicking noise might be heard while this test is going on, and it might even be noticed that the brake pedal moves a little. This is normal.



If there is a problem with ABS, this warning light stays on. See *Antilock Brake System (ABS) Warning Light on page 5-17*.

If driving safely on a wet road and it becomes necessary to slam on the brakes and continue braking to avoid a sudden obstacle, a computer senses that the wheels are slowing down. If one of the wheels is about to stop rolling, the computer will separately work the brakes at each wheel.

ABS can change the brake pressure to each wheel, as required, faster than any driver could. This can help the driver steer around the obstacle while braking hard.

As the brakes are applied, the computer keeps receiving updates on wheel speed and controls braking pressure accordingly.

Remember: ABS does not change the time needed to get a foot up to the brake pedal or always decrease stopping distance. If you get too close to the vehicle in front of you, there will not be enough time to apply the brakes if that vehicle suddenly slows or stops. Always leave enough room up ahead to stop, even with ABS.

Using ABS

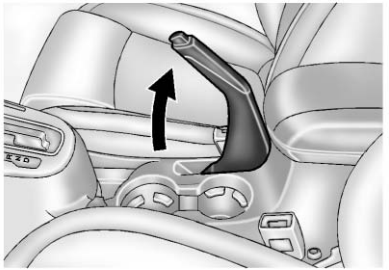
Do not pump the brakes. Just hold the brake pedal down firmly and let ABS work. You might hear the ABS pump or motor operating and feel the brake pedal pulsate, but this is normal.

Braking in Emergencies

ABS allows the driver to steer and brake at the same time. In many emergencies, steering can help more than even the very best braking.

Information Provided by: DEALER E-PROCESS

Parking Brake



To apply the parking brake, pull up on the parking brake handle. It is not necessary to push in on the release button while applying the parking brake. If the ignition is in the ON/RUN position, the brake system warning light will come on. See *Brake System Warning Light on page 5-16*.

To release the parking brake:

1. Hold the brake pedal down.
2. Pull the parking brake handle up until you can press the release button.
3. Hold the release button in as you move the brake handle all the way down.

Notice: **Driving with the parking brake on can overheat the brake system and cause premature wear or damage to brake system parts. Make sure that the parking brake is fully released and the brake warning light is off before driving.**

Driving with the parking brake applied will cause a warning chime to sound and the RELEASE PARKING BRAKE message to appear in the DIC. The message will remain on until the parking brake is released or the vehicle is stopped.

If parking on a hill, or if the vehicle is pulling a trailer, see *Driving Characteristics and Towing Tips on page 9-46*.

Information Provided by:
DEALER E-PROCESS

Brake Assist

This vehicle has a brake assist feature designed to assist the driver in stopping or decreasing vehicle speed in emergency driving conditions. This feature uses the stability system hydraulic brake control module to supplement the power brake system under conditions where the driver has quickly and forcefully applied the brake pedal in an attempt to quickly stop or slow down the vehicle. The stability system hydraulic brake control module increases brake pressure at each corner of the vehicle until the ABS activates. Minor brake pedal pulsation or pedal movement during this time is normal and the driver should continue to apply the brake pedal as the driving situation dictates. The brake assist feature will automatically disengage when the brake pedal is released or brake pedal pressure is quickly decreased.

Ride Control Systems

Traction Control System (TCS)

The vehicle has a Traction Control System (TCS) that limits wheel spin. On a front-wheel-drive vehicle, the system operates if it senses that one or both of the front wheels are spinning or beginning to lose traction. When this happens, the system brakes the spinning wheel(s), and/or reduces engine power to limit wheel spin.

The system may be heard or felt while it is working, but this is normal.

TCS is on whenever the vehicle is started. To limit wheel spin, especially in slippery road conditions, the system should always be left on. But, TCS can be turned off if needed.



TCS/StabiliTrak Light

flashes to indicate that the traction control system is active.

If there is a problem detected with TCS, SERVICE TRACTION CONTROL and SERVICE STABILITRAK may be displayed on the Driver Information Center (DIC). See *Vehicle Messages (Canada Base Level) on page 5-27* or *Vehicle Messages (Canada Uplevel and United States) on page 5-28*. When this message is displayed and comes on and stays on, the vehicle is safe to drive but the system is not operational. Driving should be adjusted accordingly.

Information Provided by: DEALER E-PROCESS

If comes on and stays on, reset the system by:

1. Stopping the vehicle.
2. Turning the engine off and waiting 15 seconds.
3. Starting the engine.

If still comes on and stays on at a speed above 20 km/h (13 mi/h), see your dealer for service.

A chime may also sound when the light comes on steady.

Notice: **Do not repeatedly brake or accelerate heavily when TCS is off. The vehicle's driveline could be damaged.**



TCS/StabiliTrak Button

is located on the console.



TCS Off Light

TCS can be turned off by pressing and releasing . When TCS is turned off, comes on and the system will not limit wheel spin. Driving should be adjusted accordingly. Press and release again to turn the system back on.

It may be necessary to turn the system off if the vehicle gets stuck in sand, mud, or snow and rocking the vehicle is required. See *If the Vehicle is Stuck on page 9-11* for more information. See also *Winter Driving on page 9-9* for information on using TCS when driving in snowy or icy conditions.

If cruise control is being used when TCS activates, cruise control will automatically disengage. Press the cruise control button to reengage when road conditions allow. See *Cruise Control on page 9-36*.

Adding non-GM accessories can affect the vehicle's performance. See *Accessories and Modifications on page 10-3* for more information.

StabiliTrak® System

The vehicle has a vehicle stability enhancement system called StabiliTrak. It is an advanced computer controlled system that assists with directional control of the vehicle in difficult driving conditions.

StabiliTrak activates when the computer senses a difference between the intended path, and the direction the vehicle is actually traveling. StabiliTrak selectively applies braking pressure at any one of the vehicle's brakes to help steer the vehicle in the intended direction.

Information Provided by: DEALER E-PROCESS

StabiliTrak is on automatically whenever the vehicle is started. To assist with directional control of the vehicle, the system should always be left on.



TCS/StabiliTrak Light

When the stability control system activates, flashes on the instrument panel. This also occurs when traction control is activated. A noise may be heard or vibration may be felt in the brake pedal. This is normal. Continue to steer the vehicle in the intended direction.

If there is a problem detected with StabiliTrak, SERVICE STABILITRAK is displayed on the Driver Information Center (DIC). See *Vehicle Messages (Canada Base Level) on page 5-27* or *Vehicle Messages (Canada Uplevel and United States) on page 5-28*. When this message is displayed and/or comes on and stays on, the vehicle is safe to drive but the system is not operational. Driving should be adjusted accordingly.

If comes on and stays on, reset the system by:

1. Stopping the vehicle.
2. Turning the engine off and waiting 15 seconds.
3. Starting the engine.

If still comes on and stays on at a speed above 20 km/h (13 mi/h), see your dealer for service.



TCS/StabiliTrak Button

is located on the console.



StabiliTrak Off Light



TCS Off Light

StabiliTrak can be turned off if needed by pressing and holding until and come on the instrument panel. When StabiliTrak is turned off, the system will not assist with directional control of the vehicle or limit wheel spin. Driving should be adjusted accordingly.

Press and release again to turn the system back on.

If cruise control is being used when StabiliTrak activates, cruise control will automatically disengage. Press the cruise control button to reengage when road conditions allow. See *Cruise Control on page 9-36* for more information.

Information Provided by: DEALER E-PROCESS

Cruise Control

With cruise control, the vehicle can maintain a speed of about 40 km/h (25 mph) or more without keeping your foot on the accelerator. Cruise control does not work at speeds below 40 km/h (25 mph).

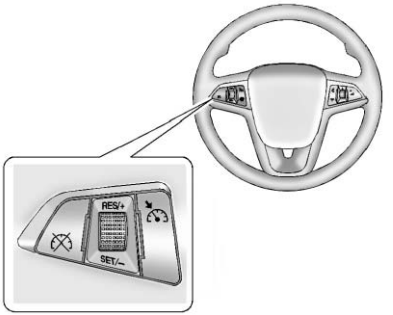
If the brakes are applied, the cruise control shuts off.

If the vehicle has a Traction Control System (TCS) or StabiliTrak System and begins to limit wheel spin while using cruise control, the cruise control automatically disengages. See *Traction Control System (TCS) on page 9-33* or *StabiliTrak® System on page 9-34*. When road conditions allow you to safely use it again, the cruise control can be turned back on.

⚠ WARNING

Cruise control can be dangerous where you cannot drive safely at a steady speed. So, do not use the cruise control on winding roads or in heavy traffic.

Cruise control can be dangerous on slippery roads. On such roads, fast changes in tire traction can cause excessive wheel slip, and you could lose control. Do not use cruise control on slippery roads.



(On/Off): Press to turn the cruise control system on and off.

RES/+ (Resume/Accelerate): Move the thumbwheel up to resume a previously set speed or to accelerate.

SET/− (Set/Coast): Move the thumbwheel down to set a speed or to make the vehicle decelerate.

(Cancel): Press to disengage cruise control without erasing the set speed from memory.

Information Provided by: DEALER E-PROCESS

Setting Cruise Control

If the cruise button is on when not in use, it could get bumped and go into cruise when not desired. Keep the cruise control switch off when cruise is not being used.

1. Press .
2. Get to the speed desired.
3. Move the thumbwheel down and release it.
4. Take your foot off the accelerator pedal.

Resuming a Set Speed

If the cruise control is set at a desired speed and then the brakes or clutch for manual transmissions are applied, the cruise control is disengaged without erasing the set speed from memory.

Once the vehicle reaches about 40 km/h (25 mph) or more, move the thumbwheel up toward RES/+ briefly. The vehicle returns to the speed selected previously and stays there.

Increasing Speed While Using Cruise Control

If the cruise control system is already activated,

- Move the thumbwheel up toward RES/+ and hold it until the desired speed is reached, and then release it.
- To increase the speed in small amounts, move the thumbwheel up toward RES/+ briefly and then release it. Each time this is done, the vehicle goes about 1.6 km/h (1 mph) faster.

Reducing Speed While Using Cruise Control

If the cruise control system is already activated,

- Move the thumbwheel toward SET/− and hold until the desired lower speed is reached, then release it.
- To slow down in small amounts, move the thumbwheel toward SET/− briefly. Each time this is done, the vehicle goes about 1.6 km/h (1 mph) slower.

Passing Another Vehicle While Using Cruise Control

Use the accelerator pedal to increase the vehicle speed. When you take your foot off the pedal, the vehicle slows down to the previous set cruise control speed.

Using Cruise Control on Hills

How well the cruise control works on hills depends upon the vehicle speed, load, and the steepness of the hills. When going up steep hills, you might have to step on the accelerator pedal to maintain the vehicle speed. When going downhill, you might have to brake or shift to a lower gear to maintain the vehicle speed. When the brakes are applied the cruise control is disengaged.

Information Provided by: DEALER E-PROCESS

Ending Cruise Control

There are three ways to end cruise control:

- To disengage cruise control; step lightly on the brake pedal or clutch for manual transmission.
- Press on the steering wheel.
- To turn off the cruise control, press on the steering wheel.

Erasing Speed Memory

The cruise control set speed is erased from memory by pressing the button or if the ignition is turned off.

Object Detection Systems

Ultrasonic Parking Assist

For vehicles with the Ultrasonic Rear Parking Assist (URPA) system, it assists the driver with parking and avoiding objects while in R (Reverse). URPA operates at speeds less than 8 km/h (5 mph), and the sensors on the rear bumper detect objects up to 2.5 m (8 ft) behind the vehicle, and at least 20 cm (8 in) off the ground.

⚠ WARNING

The Ultrasonic Rear Parking Assist (URPA) system does not replace driver vision. It cannot detect:

- Objects that are below the bumper, underneath the vehicle, or too close or far from the vehicle
- Children, pedestrians, bicyclists, or pets.

If you do not use proper care before and while backing, vehicle damage, injury, or death could occur. Even with URPA, always check behind the vehicle before backing up. While backing, be sure to look for objects and check the vehicle's mirrors.

Information Provided by: DEALER E-PROCESS

How the System Works

URPA comes on automatically when the shift lever is moved into R (Reverse).

A single tone sounds to indicate the system is working.

URPA operates only at speeds less than 8 km/h (5 mph).

An obstacle is indicated by audible beeps. The interval between the beeps becomes shorter as the vehicle gets closer to the obstacle. When the distance is less than 30 cm (12 in) the beeps are continuous.

To be detected, objects must be at least 20 cm (8 in) off the ground and below trunk level. Objects must also be within 2.5 m (8 ft) from the rear bumper. The distance objects can be detected may be less during warmer or humid weather.

PARK ASSIST OFF may display on the Driver Information Center (DIC) to indicate that URPA is off. The message disappears after a short period of time.

Turning the System On and Off

The URPA system can be turned on and off through the vehicle personalization menu on the infotainment system. See *Vehicle Personalization on page 5-34* for more information.

When the System Does Not Seem to Work Properly

If the URPA system does not activate due to a temporary condition, the message PARK ASSIST OFF displays on the DIC. See *Object Detection System Messages on page 5-32* for more information. This can occur under the following conditions:

- The driver has disabled the system.
- The ultrasonic sensors are not clean. Keep the vehicle's rear bumper free of mud, dirt, snow, ice, and slush. For cleaning instructions, see *Exterior Care on page 10-90*.

Information Provided by: DEALER E-PROCESS

- An object was hanging out of the trunk during the last drive cycle. Once the object is removed, URPA will return to normal operation.
- The vehicle's bumper is damaged. Take the vehicle to your dealer to repair the system.
- Other conditions may affect system performance, such as vibrations from a jackhammer or the compression of air brakes on a very large truck.

Fuel

Use of the recommended fuel is an important part of the proper maintenance of this vehicle. To help keep the engine clean and maintain optimum vehicle performance, we recommend the use of gasoline advertised as TOP TIER Detergent Gasoline.

Look for the TOP TIER label on the fuel pump to ensure gasoline meets enhanced detergency standards developed by auto companies. A list of marketers providing TOP TIER Detergent Gasoline can be found at www.toptiergas.com.



Recommended Fuel

Use regular unleaded gasoline with a posted octane rating of 87 or higher. If the octane rating is less than 87, an audible knocking noise, commonly referred to as spark knock, might be heard when driving. If this occurs, use a gasoline rated at 87 octane or higher as soon as possible. If heavy knocking is heard when using gasoline rated at 87 octane or higher, the engine needs service.

Information Provided by: DEALER E-PROCESS

Gasoline Specifications (U.S. and Canada Only)

At a minimum, gasoline should meet ASTM specification D 4814 in the United States or CAN/CGSB-3.5 or 3.511 in Canada. Some gasolines contain an octane-enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT). We recommend against the use of gasolines containing MMT. See *Fuel Additives on page 9-42* for additional information.

California Fuel Requirements

If the vehicle is certified to meet California Emissions Standards, it is designed to operate on fuels that meet California specifications. See the underhood emission control label. If this fuel is not available in states adopting California emissions standards, the vehicle will operate satisfactorily on fuels meeting federal specifications, but emission control system performance might be affected. The malfunction indicator lamp could turn on and the vehicle might fail a smog-check test. See *Malfunction Indicator Lamp on page 5-13*. If this occurs, return to your authorized dealer for diagnosis. If it is determined that the condition is caused by the type of fuel used, repairs might not be covered by the vehicle warranty.

Fuels in Foreign Countries

Never use leaded gasoline or any other fuel not recommended in the previous text on fuel. Costly repairs caused by use of improper fuel would not be covered by the vehicle warranty.

To check the fuel availability, ask an auto club, or contact a major oil company that does business in the country where you will be driving.

Information Provided by:
DEALER E-PROCESS

Fuel Additives

To provide cleaner air, all gasolines in the United States are now required to contain additives that help prevent engine and fuel system deposits from forming, allowing the emission control system to work properly. In most cases, nothing should have to be added to the fuel. However, some gasolines contain only the minimum amount of additive required to meet U.S. Environmental Protection Agency regulations. To help keep fuel injectors and intake valves clean, or if the vehicle experiences problems due to dirty injectors or valves, look for gasoline that is advertised as TOP TIER Detergent Gasoline. Look for the TOP TIER label on the fuel pump to ensure gasoline meets enhanced detergency standards developed by the auto companies. A list of marketers providing TOP TIER Detergent Gasoline can be found at www.toptiergas.com.

For customers who do not use TOP TIER Detergent Gasoline regularly, one bottle of GM Fuel System Treatment PLUS, added to the fuel tank at every engine oil change, can help clean deposits from fuel injectors and intake valves. GM Fuel System Treatment PLUS is the only gasoline additive recommended by General Motors. It is available at your dealer.

Gasolines containing oxygenates, such as ethers and ethanol, and reformulated gasolines might be available in your area. We recommend that you use these gasolines, if they comply with the specifications described earlier. However, E85 (85% ethanol) and other fuels containing more than 10% ethanol must not be used in vehicles that were not designed for those fuels.

Notice: **This vehicle was not designed for fuel that contains methanol. Do not use fuel containing methanol. It can corrode metal parts in the fuel system and also damage plastic and rubber parts. That damage would not be covered under the vehicle warranty.**

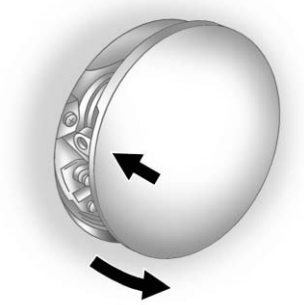
Some gasolines that are not reformulated for low emissions can contain an octane-enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT); ask the attendant where you buy gasoline whether the fuel contains MMT. We recommend against the use of such gasolines. Fuels containing MMT can reduce the life of spark plugs and the performance of the emission control system could be affected. The malfunction indicator lamp might turn on. If this occurs, return to your dealer for service.

Information Provided by: DEALER E-PROCESS

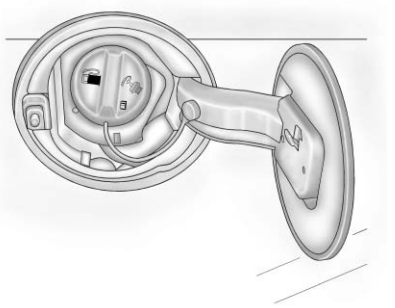
Filling the Tank

⚠ WARNING

Fuel vapor burns violently and a fuel fire can cause bad injuries. To help avoid injuries to you and others, read and follow all the instructions on the fuel pump island. Turn off the engine when refueling. Do not smoke near fuel or when refueling the vehicle. Do not use cellular phones. Keep sparks, flames, and smoking materials away from fuel. Do not leave the fuel pump unattended when refueling the vehicle. This is against the law in some places. Do not re-enter the vehicle while pumping fuel. Keep children away from the fuel pump; never let children pump fuel.



The tethered fuel cap is behind the fuel door on the vehicle's passenger side. To open the fuel door, push the rearward center edge in and release and the door will open. Turn the fuel cap counterclockwise to remove. Do not release the cap too soon or it will spring back. Reinstall the cap by turning it clockwise until it clicks.



If the cap is not properly installed, the Malfunction Indicator Lamp will come on. See *Malfunction Indicator Lamp on page 5-13* for more information.

Information Provided by: DEALER E-PROCESS

⚠ WARNING

Fuel can spray out on you if you open the fuel cap too quickly. If you spill fuel and then something ignites it, you could be badly burned. This spray can happen if the tank is nearly full, and is more likely in hot weather. Open the fuel cap slowly and wait for any hiss noise to stop. Then unscrew the cap all the way.

Do not top off or overfill the tank. Wait a few seconds before removing the nozzle. Clean fuel from painted surfaces as soon as possible. See *Exterior Care on page 10-90*.

⚠ WARNING

If a fire starts while you are refueling, do not remove the nozzle. Shut off the flow of fuel by shutting off the pump or by notifying the station attendant. Leave the area immediately.

Notice: **If a new fuel cap is needed, be sure to get the right type of cap from your dealer. The wrong type fuel cap might not fit properly, might cause the malfunction indicator lamp to light, and could damage the fuel tank and emissions system. See *Malfunction Indicator Lamp on page 5-13*.**

Filling a Portable Fuel Container

⚠ WARNING

Never fill a portable fuel container while it is in the vehicle. Static electricity discharge from the container can ignite the fuel vapor. You can be badly burned and the vehicle damaged if this occurs. To help avoid injury to you and others:

- Dispense fuel only into approved containers.
- Do not fill a container while it is inside a vehicle, in a vehicle's trunk, pickup bed, or on any surface other than the ground.

(Continued)

Information Provided by: DEALER E-PROCESS

WARNING (Continued)

- Bring the fill nozzle in contact with the inside of the fill opening before operating the nozzle. Contact should be maintained until the filling is complete.
- Do not smoke while pumping fuel.
- Do not use a cellular phone while pumping fuel.

Towing

General Towing Information

Only use towing equipment that has been designed for the vehicle. Contact your dealer or trailering dealer for assistance with preparing the vehicle for towing a trailer.

See the following trailer towing information in this section:

- For information on driving while towing a trailer, see “Driving Characteristics and Towing Tips.”
- For maximum vehicle and trailer weights, see “Trailer Towing.”
- For information on equipment to tow a trailer, see “Towing Equipment.”

For information on towing a disabled vehicle, see *Towing the Vehicle on page 10-87*. For information on towing the vehicle behind another vehicle such as a motor home, see *Recreational Vehicle Towing on page 10-87*.

Information Provided by: DEALER E-PROCESS

Driving Characteristics and Towing Tips

⚠ WARNING

The driver can lose control when pulling a trailer if the correct equipment is not used or the vehicle is not driven properly. For example, if the trailer is too heavy, the brakes may not work well — or even at all. The driver and passengers could be seriously injured. The vehicle may also be damaged; the resulting repairs would not be covered by the vehicle warranty. Pull a trailer only if all the steps in this section have been followed. Ask your dealer for advice and information about towing a trailer with the vehicle.

The vehicle can tow a trailer if it is equipped with the proper trailer towing equipment. To identify the trailering capacity of the vehicle, see *Trailer Towing (Except Fuel Economy Model) on page 9-50* or *Trailer Towing (Fuel Economy Model) on page 9-51*. Trailering changes handling, acceleration, braking, durability, and fuel economy. With the added weight, the engine, transmission, wheel assemblies, and tires are forced to work harder and under greater loads. The trailer also adds wind resistance, increasing the pulling requirements. For safe trailering, correctly use the proper trailering equipment.

The following information has important trailering tips and rules for your safety and that of your passengers. Read this section carefully before pulling a trailer.

Pulling a Trailer

Here are some important points:

- There are many laws, including speed limit restrictions that apply to trailering. Check for legal requirements with state or provincial police.
- Do not tow a trailer at all during the first 1 600 km (1,000 miles) the new vehicle is driven. The engine, axle, or other parts could be damaged.
- During the first 800 km (500 miles) that a trailer is towed, do not drive over 80 km/h (50 mph) and do not make starts at full throttle. This reduces wear on the vehicle.

Information Provided by: DEALER E-PROCESS

- Vehicles with automatic transmissions can tow in D (Drive) but M (Manual Mode) is recommended. See *Manual Mode on page 9-28* for more information. Use a lower gear if the transmission shifts too often. For vehicles with a manual transmission, it is better not to use the highest gear.
- Use the cruise control when towing.
- Obey speed limit restrictions. Do not drive faster than the maximum posted speed for trailers, or no more than 90 km/h (55 mph), to reduce wear on the vehicle.

Driving with a Trailer

Towing a trailer requires experience. Get familiar with handling and braking with the added trailer weight. The vehicle is now longer and not as responsive as the vehicle is by itself.

Check all trailer hitch parts and attachments, safety chains, electrical connectors, lamps, tires, and mirror adjustments. If the trailer has electric brakes, start the vehicle and trailer moving and then apply the trailer brake controller by hand to be sure the brakes are working.

During the trip, check regularly to be sure that the load is secure, and the lamps and trailer brakes are working properly.

Towing with a Stability Control System

When towing, the sound of the stability control system might be heard. The system is reacting to the vehicle movement caused by the trailer, which mainly occurs during cornering. This is normal when towing heavier trailers.

Following Distance

Stay at least twice as far behind the vehicle ahead as you would when driving the vehicle without a trailer. This can help to avoid situations that require heavy braking and sudden turns.

Passing

More passing distance is needed when towing a trailer. Because the rig is longer, it is necessary to go much farther beyond the passed vehicle before returning to the lane.

Backing Up

Hold the bottom of the steering wheel with one hand. Then, to move the trailer to the left, move that hand to the left. To move the trailer to the right, move your hand to the right. Always back up slowly and, if possible, have someone guide you.

Information Provided by:
DEALER E-PROCESS

Making Turns

Notice: **Making very sharp turns while trailering could cause the trailer to come in contact with the vehicle. The vehicle could be damaged. Avoid making very sharp turns while trailering.**

When turning with a trailer, make wider turns than normal. Do this so the trailer won't strike soft shoulders, curbs, road signs, trees or other objects. Avoid jerky or sudden maneuvers. Signal well in advance.

Turn Signals When Towing a Trailer

The arrows on the instrument panel flash whenever signaling a turn or lane change. Properly hooked up, the trailer lamps also flash, telling other drivers the vehicle is turning, changing lanes, or stopping.

When towing a trailer, the arrows on the instrument panel flash for turns even if the bulbs on the trailer are burned out. For this reason you may think other drivers are seeing the signal when they are not. It is important to check occasionally to be sure the trailer bulbs are still working.

Driving On Grades

Reduce speed and shift to a lower gear before starting down a long or steep downgrade. If the transmission is not shifted down, the brakes might have to be used so much that they would get hot and no longer work well.

Vehicles with an automatic transmission can tow in D (Drive) but M (Manual Mode) is recommended. Shift the transmission to a lower gear if the transmission shifts too often under heavy loads and/or hilly conditions. For vehicles with a manual transmission, it is better not to use the highest gear.

When towing at high altitude on steep uphill grades, consider the following: Engine coolant will boil at a lower temperature than at normal altitudes. If the engine is turned off immediately after towing at high altitude on steep uphill grades, the vehicle may show signs similar to engine overheating. To avoid this, let the engine run while parked, preferably on level ground, with the automatic transmission in P (Park) for a few minutes before turning the engine off. For vehicles with manual transmissions, let the engine run while parked, preferably on level ground, with the transmission out of gear and the parking brake applied, for a few minutes before turning the engine off. If the overheat warning comes on, see *Engine Overheating on page 10-20*.

Information Provided by: DEALER E-PROCESS

Parking on Hills

⚠ WARNING

Parking the vehicle on a hill with the trailer attached can be dangerous. If something goes wrong, the rig could start to move. People can be injured, and both the vehicle and the trailer can be damaged. When possible, always park the rig on a flat surface.

If parking the rig on a hill:

1. Press the brake pedal, but do not shift into P (Park) yet for vehicles with an automatic transmission, or into gear for vehicles with a manual transmission. Turn the wheels into the curb if facing downhill or into traffic if facing uphill.
2. Have someone place chocks under the trailer wheels.
3. When the wheel chocks are in place, release the brake pedal until the chocks absorb the load.
4. Reapply the brake pedal. Then apply the parking brake and shift into P (Park) for vehicles with an automatic transmission or into gear for vehicles with a manual transmission.
5. Release the brake pedal.

Leaving After Parking on a Hill

1. Apply and hold the brake pedal while you:
 - Start the engine,
 - Shift into a gear, and
 - Release the parking brake.
2. Let up on the brake pedal.
3. Drive slowly until the trailer is clear of the chocks.
4. Stop and have someone pick up and store the chocks.

Maintenance When Trailer Towing

The vehicle needs service more often when pulling a trailer. See this manual's Maintenance Schedule or Index for more information. Things that are especially important in trailer operation are automatic transmission fluid, engine oil, axle lubricant, belts, cooling system, and brake system. It is a good idea to inspect these before and during the trip.

Check periodically to see that all hitch nuts and bolts are tight.

Engine Cooling When Trailer Towing

The cooling system may temporarily overheat during severe operating conditions. See *Engine Overheating on page 10-20*.

Information Provided by: DEALER E-PROCESS

Trailer Towing (Except Fuel Economy Model)

Before pulling a trailer, there are three important considerations that have to do with weight:

- The weight of the trailer.
- The weight of the trailer tongue.
- The total weight on your vehicle's tires.

Weight of the Trailer

How heavy can a trailer safely be?

It should never weigh more than 454 kg (1,000 lbs). But even that can be too heavy.

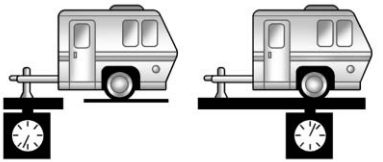
It depends on how the rig is used. For example, speed, altitude, road grades, outside temperature and how much the vehicle is used to pull a trailer are all important. It can depend on any special equipment on the vehicle, and the amount of tongue weight the vehicle can carry. See “Weight of the Trailer Tongue” later in this section for more information.

Maximum trailer weight is calculated assuming only the driver is in the tow vehicle and it has all the required trailering equipment. The weight of additional optional equipment, passengers and cargo in the tow vehicle must be subtracted from the maximum trailer weight.

Ask your dealer for trailering information or advice, or write us at our Customer Assistance Offices. See *Customer Assistance Offices on page 13-3* for more information.

Weight of the Trailer Tongue

The tongue load (A) of any trailer is an important weight to measure because it affects the total gross weight of the vehicle. The Gross Vehicle Weight (GVW) includes the curb weight of the vehicle, any cargo carried in it, and the people who will be riding in the vehicle. If there are a lot of options, equipment, passengers or cargo in the vehicle, it will reduce the tongue weight the vehicle can carry, which will also reduce the trailer weight the vehicle can tow. If towing a trailer, the tongue load must be added to the GVW because the vehicle will be carrying that weight, too. See *Vehicle Load Limits on page 9-12* for more information.



The trailer tongue (A) should weigh 10-15 percent of the total loaded trailer weight (B).

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After loading the trailer, weigh the trailer and then the tongue, separately, to see if the weights are proper. If they are not, adjustments might be made by moving some items around in the trailer.

Total Weight on Your Vehicle's Tires

Be sure the vehicle's tires are inflated to the upper limit for cold tires. These numbers can be found on the Tire-Loading Information label. See *Vehicle Load Limits on page 9-12*. Make sure not to go over the GVW limit for the vehicle, including the weight of the trailer tongue.

Trailer Towing (Fuel Economy Model)

The vehicle is neither designed nor intended to tow a trailer.

Towing Equipment

Hitches

Use the correct hitch equipment. See your dealer or a hitch dealer for assistance.

- The rear bumper on the vehicle is not intended for hitches. Do not attach rental hitches or other bumper-type hitches to it. Use only a frame-mounted hitch that does not attach to the bumper.
- Will any holes be made in the body of the vehicle when the trailer hitch is installed? If there are, seal the holes when the hitch is removed. If the holes are not sealed, dirt, water, and deadly carbon monoxide (CO) from the exhaust can get into the vehicle. See *Engine Exhaust on page 9-24*.

Safety Chains

Always attach chains between the vehicle and the trailer. Cross the safety chains under the tongue of the trailer to help prevent the tongue from contacting the road if it becomes separated from the hitch. Leave enough slack so the rig can turn. Never allow safety chains to drag on the ground.

Trailer Brakes

Does the trailer have its own brakes? Be sure to read and follow the instructions for the trailer brakes so they are installed, adjusted, and maintained properly.

Because the vehicle has antilock brakes, do not tap into the vehicle's brake system. If this is done, both brake systems will not work well, or at all.

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Conversions and Add-Ons

Add-On Electrical Equipment

Notice: **Do not add anything electrical to the vehicle unless you check with your dealer first. Some electrical equipment can damage the vehicle and the damage would not be covered by the vehicle's warranty. Some add-on electrical equipment can keep other components from working as they should.**

Add-on equipment can drain the vehicle's 12-volt battery, even if the vehicle is not operating.

The vehicle has an airbag system. Before attempting to add anything electrical to the vehicle, see *Servicing the Airbag-Equipped Vehicle on page 3-38* and *Adding Equipment to the Airbag-Equipped Vehicle on page 3-38*.

Information Provided by:
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General Information

For service and parts needs, visit your dealer. You will receive genuine GM parts and GM-trained and supported service people.

Genuine GM parts have one of these marks:

ACDelco

Genuine GM | Parts

Goodwrench

GM Accessories

Information Provided by:
DEALER E-PROCESS

California Proposition 65 Warning

Most motor vehicles, including this one, contain and/or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Engine exhaust, many parts and systems, many fluids, and some component wear by-products contain and/or emit these chemicals.

California Perchlorate Materials Requirements

Certain types of automotive applications, such as airbag initiators, seat belt pretensioners, and lithium batteries contained in Remote Keyless Entry transmitters, may contain perchlorate materials. Special handling may be necessary. For additional information, see www.dtsc.ca.gov/hazardouswaste/perchlorate.

Accessories and Modifications

Adding non-dealer accessories to the vehicle can affect vehicle performance and safety, including such things as airbags, braking, stability, ride and handling, emissions systems, aerodynamics, durability, and electronic systems like antilock brakes, traction control, and stability control. Some of these accessories could even cause malfunction or damage not covered by the vehicle warranty.

Damage to vehicle components resulting from the installation or use of non-GM certified parts, including control module modifications, is not covered under the terms of the vehicle warranty and may affect remaining warranty coverage for affected parts.

GM Accessories are designed to complement and function with other systems on the vehicle. Your GM dealer can accessorize the vehicle using genuine GM Accessories. When you go to your GM dealer and ask for GM Accessories, you will know that GM-trained and supported service technicians will perform the work using genuine GM Accessories.

Also, see *Adding Equipment to the Airbag-Equipped Vehicle on page 3-38*.

Information Provided by: DEALER E-PROCESS

Vehicle Checks

Doing Your Own Service Work

⚠ WARNING

You can be injured and the vehicle could be damaged if you try to do service work on a vehicle without knowing enough about it.

- Be sure you have sufficient knowledge, experience, the proper replacement parts, and tools before attempting any vehicle maintenance task.
- Be sure to use the proper nuts, bolts, and other fasteners. Metric and English fasteners can be easily confused. If the wrong fasteners are used, parts can later break or fall off. You could be hurt.

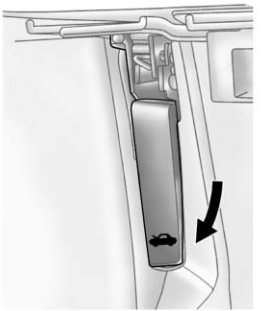
If doing some of your own service work, use the proper service manual. It tells you much more about how to service the vehicle than this manual can. To order the proper service manual, see *Service Publications Ordering Information on page 13-12*.

This vehicle has an airbag system. Before attempting to do your own service work, see *Servicing the Airbag-Equipped Vehicle on page 3-38*.

Keep a record with all parts receipts and list the mileage and the date of any service work performed. See *Maintenance Records on page 11-9*.

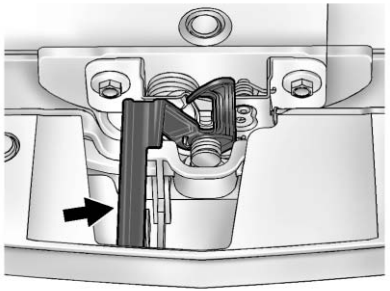
Hood

To open the hood:

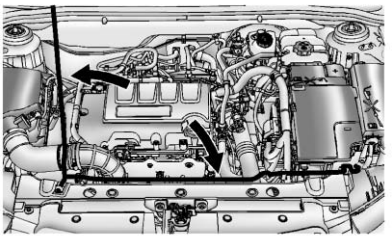


1. Pull up on the hood release handle. It is located inside the vehicle to the left of the steering column.

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2. Go to the front of the vehicle and push the secondary hood release handle toward the driver side of the vehicle.



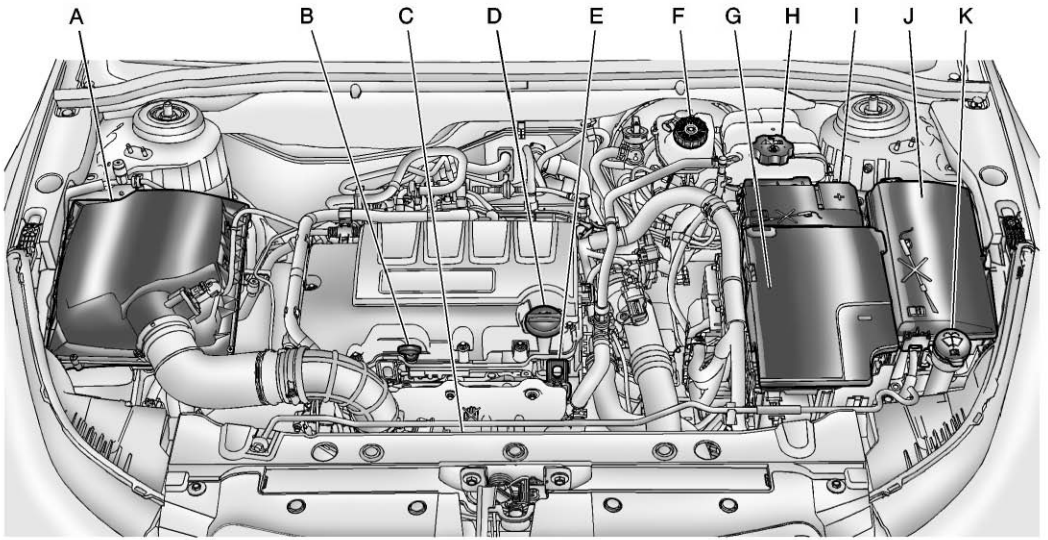
3. Lift the hood and release the hood prop from its retainer, located above the radiator. Securely place the hood prop into the slot on the underside of the hood.

To close the hood:

1. Before closing the hood, be sure all the filler caps are on properly. Then, lift the hood to relieve pressure on the hood prop. Remove the hood prop from the slot on the underside of the hood and return the prop to its retainer. The prop rod must click into place when returning it to the retainer to prevent hood damage.
2. Lower the hood 30 cm (12 in) above the vehicle and release it so it fully latches. Check to make sure the hood is closed and repeat the process if necessary.

Information Provided by:
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Engine Compartment Overview



1.4 L L4 Engine

Information Provided by:
DEALER E-PROCESS

A. *Engine Air Cleaner/Filter on page 10-15*.

B. Engine Oil Dipstick. See “Checking Engine Oil” under *Engine Oil on page 10-9*.

C. Electric Engine Cooling Fans (Out of View). See *Cooling System on page 10-16*.

D. Engine Oil Fill Cap. See “When to Add Engine Oil” under *Engine Oil on page 10-9*.

E. Remote Negative (-) Terminal. See *Jump Starting on page 10-84*.

F. Brake/Clutch Fluid Reservoir. See “Brake Fluid” under *Brakes on page 10-23* and *Hydraulic Clutch on page 10-14*.

G. *Battery on page 10-26* (Under Cover).

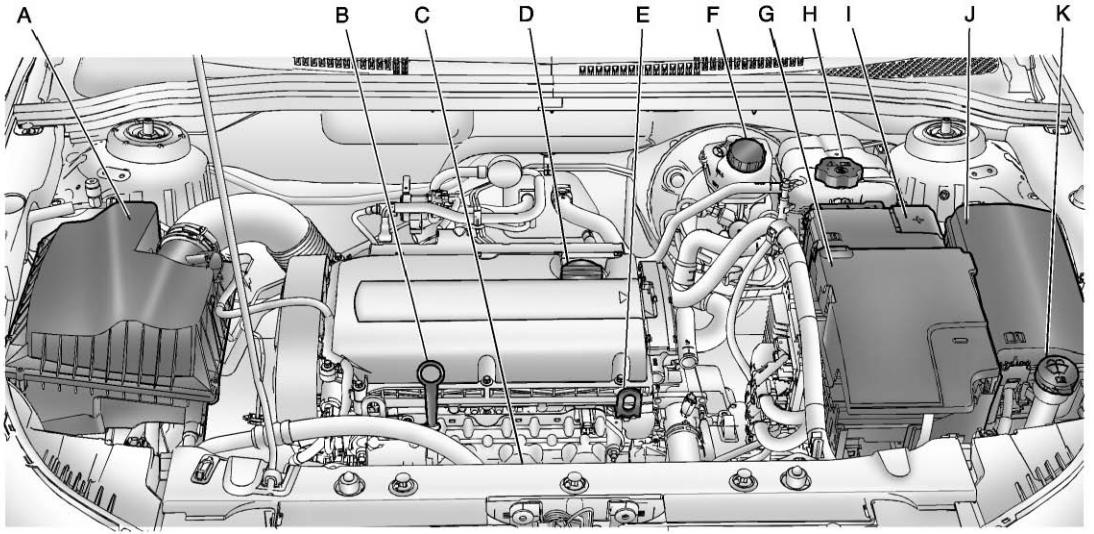
H. Engine Coolant Surge Tank and Pressure Cap. See *Engine Coolant on page 10-17*.

I. Remote Positive (+) Terminal. See *Jump Starting on page 10-84*.

J. *Engine Compartment Fuse Block on page 10-37*.

K. Windshield Washer Fluid Reservoir. See “Adding Washer Fluid” under *Washer Fluid on page 10-22*.

Information Provided by:
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1.8 L L4 Engine

Information Provided by:
DEALER E-PROCESS

A. *Engine Air Cleaner/Filter on page 10-15*.

B. Engine Oil Dipstick. See “Checking Engine Oil” under *Engine Oil on page 10-9*.

C. Engine Cooling Fans (Out of View). See *Cooling System on page 10-16*.

D. Engine Oil Fill Cap. See “When to Add Engine Oil” under *Engine Oil on page 10-9*.

E. Remote Negative (-) Terminal. See *Jump Starting on page 10-84*.

F. Brake/Clutch Fluid Reservoir. See “Brake Fluid” under *Brakes on page 10-23* and *Hydraulic Clutch on page 10-14*.

G. *Battery on page 10-26* (Under Cover).

H. Engine Coolant Surge Tank and Pressure Cap. See *Cooling System on page 10-16*.

I. Remote Positive (+) Terminal. See *Jump Starting on page 10-84*.

J. *Engine Compartment Fuse Block on page 10-37*.

K. Windshield Washer Fluid Reservoir. See “Adding Washer Fluid” under *Washer Fluid on page 10-22*.

Engine Oil

To ensure proper engine performance and long life, careful attention must be paid to engine oil. Following these simple, but important steps will help protect your investment:

- Always use engine oil approved to the proper specification and of the proper viscosity grade. See “Selecting the Right Engine Oil” in this section.
- Check the engine oil level regularly and maintain the proper oil level. See “Checking Engine Oil” and “When to Add Engine Oil” in this section.
- Change the engine oil at the appropriate time. See *Engine Oil Life System on page 10-12*.
- Always dispose of engine oil properly. See “What to Do With Used Oil” in this section.

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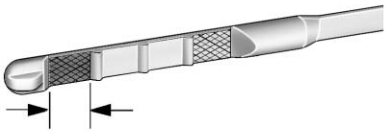
Checking Engine Oil

It is a good idea to check the engine oil level at each fuel fill. In order to get an accurate reading, the vehicle must be on level ground. The engine oil dipstick handle is a yellow loop. See *Engine Compartment Overview on page 10-6* for the location of the engine oil dipstick.

Obtaining an accurate oil level reading is essential:

1. If the engine has been running recently, turn off the engine and allow several minutes for the oil to drain back into the oil pan. Checking the oil level too soon after engine shut off will not provide an accurate oil level reading.
2. Pull out the dipstick and clean it with a paper towel or cloth, then push it back in all the way. Remove it again, keeping the tip down, and check the level.

When to Add Engine Oil



If the oil is below the cross-hatched area at the tip of the dipstick, add one liter/quart of the recommended oil and then recheck the level. See "Selecting the Right Engine Oil" in this section for an explanation of what kind of oil to use. For engine oil crankcase capacity, see *Capacities and Specifications on page 12-2*.

Notice: **Do not add too much oil. Oil levels above or below the acceptable operating range shown on the dipstick are harmful to the engine. If you find that you have an oil level above the operating range, i.e. the engine has so much oil that the oil level gets above the cross-hatched area that shows the proper operating range, the engine could be damaged. You should drain out the excess oil or limit driving of the vehicle and seek a service professional to remove the excess amount of oil.**

See *Engine Compartment Overview on page 10-6* for the location of the engine oil fill cap.

Add enough oil to put the level somewhere in the proper operating range. Push the dipstick all the way back in when through.

Selecting the Right Engine Oil

Selecting the right engine oil depends on both the proper oil specification and viscosity grade:

Specification

Use and ask for engine oils with the dexos™ certification mark. Oils meeting the requirements of the vehicle should have the dexos™ certification mark on the container.

Information Provided by: DEALER E-PROCESS

This certification mark indicates that the oil has been approved to the dexos™ specification.

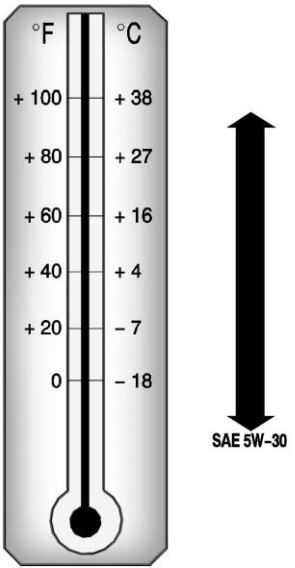
This vehicle was filled at the factory with dexos™ approved engine oil.

Notice: **Use only engine oil that is approved to the dexos™ specification or an equivalent engine oil of the appropriate viscosity grade. Engine oils approved to the dexos™ specification will show the dexos™ symbol on the container. Failure to use the recommended engine oil or equivalent can result in engine damage not covered by the vehicle warranty. If you are unsure whether the oil is approved to the dexos™ specification, ask your service provider.**

Use of Substitute Engine Oils if dexos™ is unavailable: In the event that dexos™ approved engine oil is not available at an oil change or for maintaining proper oil level, you may use substitute engine oil displaying the API Starburst symbol and of SAE 5W-30 viscosity grade. Use of oils that do not meet the dexos™ specification, however, may result in reduced performance under certain circumstances.

Viscosity Grade

SAE 5W-30 is the best viscosity grade for the vehicle. Do not use other viscosity oils such as SAE 10W-30, 10W-40, or 20W-50.



Cold Temperature Operation: In an area of extreme cold, where the temperature falls below −29°C

Information Provided by:
DEALER E-PROCESS

(−20°F), an SAE 0W-30 oil should be used. An oil of this viscosity grade will provide easier cold starting for the engine at extremely low temperatures. When selecting an oil of the appropriate viscosity grade, be sure to always select an oil that meets the required specification, dexos™. See “Specification” earlier in this section for more information.

Engine Oil Additives/Engine Oil Flushes

Do not add anything to the oil. The recommended oils with the dexos™ specification and displaying the dexos™ certification mark are all that is needed for good performance and engine protection.

Engine oil system flushes are not recommended and could cause engine damage not covered by the vehicle warranty.

What to Do with Used Oil

Used engine oil contains certain elements that can be unhealthy for your skin and could even cause cancer. Do not let used oil stay on your skin for very long. Clean your skin and nails with soap and water, or a good hand cleaner. Wash or properly dispose of clothing or rags containing used engine oil. See the manufacturer's warnings about the use and disposal of oil products.

Used oil can be a threat to the environment. If you change your own oil, be sure to drain all the oil from the filter before disposal. Never dispose of oil by putting it in the trash or pouring it on the ground, into sewers, or into streams or bodies of water. Recycle it by taking it to a place that collects used oil.

Engine Oil Life System

When to Change Engine Oil

This vehicle has a computer system that indicates when to change the engine oil and filter. This is based on engine revolutions and engine temperature, and not on mileage. Based on driving conditions, the mileage at which an oil change is indicated can vary considerably. For the oil life system to work properly, the system must be reset every time the oil is changed.

When the system has calculated that oil life has been diminished, it indicates that an oil change is necessary. A CHANGE ENGINE OIL SOON DIC message or Code 82 DIC message comes on. See *Engine Oil Messages on page 5-30*. Change the oil as soon as possible within the next 1 000 km (600 mi).

Information Provided by: DEALER E-PROCESS

It is possible that, if driving under the best conditions, the oil life system might indicate that an oil change is not necessary for up to a year. The engine oil and filter must be changed at least once a year and, at this time, the system must be reset. Your dealer has trained service people who will perform this work and reset the system. It is also important to check the oil regularly over the course of an oil drain interval and keep it at the proper level.

If the system is ever reset accidentally, the oil must be changed at 5 000 km (3,000 mi) since the last oil change. Remember to reset the oil life system whenever the oil is changed.

How to Reset the Engine Oil Life System

Reset the system whenever the engine oil is changed so that the system can calculate the next engine oil change. To reset the system:

1. Using the DIC MENU button and thumbwheel, scroll until you reach REMAINING OIL LIFE on the DIC (oil can symbol with % sign for Canada).
2. Press the SET button to reset the oil life at 100%. When prompted, use the thumbwheel to highlight YES or NO. Press the SET/CLEAR button to confirm.

Be careful not to reset the oil life display accidentally at any time other than after the oil is changed. It cannot be reset accurately.

If the CHANGE ENGINE OIL SOON DIC message or Code 82 DIC message comes back on when the vehicle is started, the engine oil life system has not reset. Repeat the procedure.

Automatic Transmission Fluid

How to Check Automatic Transmission Fluid

It is not necessary to check the transmission fluid level.
A transmission fluid leak is the only reason for fluid loss. If a leak occurs, take the vehicle to your dealer service department and have it repaired as soon as possible.

The vehicle is not equipped with a transmission fluid level dipstick. There is a special procedure for checking and changing the transmission fluid. Because this procedure is difficult, this should be done at the dealer service department. Contact the dealer for additional information.

Information Provided by:
DEALER E-PROCESS

Change the fluid and filter at the intervals listed in *Scheduled Maintenance on page 11-2*, and be sure to use the fluid listed in *Recommended Fluids and Lubricants on page 11-6*.

Manual Transmission Fluid

How to Check Manual Transmission Fluid

It is not necessary to check the manual transmission fluid level. A transmission fluid leak is the only reason for fluid loss. If a leak occurs, take the vehicle to your dealer service department and have it repaired as soon as possible. See *Recommended Fluids and Lubricants on page 11-6* for the proper fluid to use.

Hydraulic Clutch

For vehicles with a manual transmission, it is not necessary to regularly check brake/clutch fluid unless there is a leak suspected. Adding fluid will not correct a leak. A fluid loss in this system could indicate a problem. Have the system inspected and repaired.

When to Check and What to Use



The brake/hydraulic clutch fluid reservoir cap has this symbol on it. The common brake/clutch fluid reservoir is filled with DOT 3 brake fluid as indicated on the reservoir cap. See *Engine Compartment Overview on page 10-6* for reservoir location.

How to Check and Add Fluid

Visually check the brake/clutch fluid reservoir to make sure the fluid level is at the MIN (minimum) line on the side of the reservoir. The brake/hydraulic clutch fluid system should be closed and sealed.

Do not remove the cap to check the fluid level or to top-off the fluid level. Remove the cap only when necessary to add the proper fluid until the level reaches the MIN line.

Information Provided by: DEALER E-PROCESS

Engine Air Cleaner/Filter

See *Engine Compartment Overview on page 10-6* for the location of the engine air cleaner/filter.

When to Inspect the Engine Air Cleaner/Filter

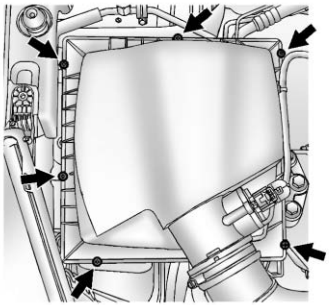
Inspect the air cleaner/filter at the scheduled maintenance intervals and replace it at the first oil change after each 80 000 km (50,000 mi) interval. See *Scheduled Maintenance on page 11-2* for more information. If you are driving in dusty/dirty conditions, inspect the filter at each engine oil change.

How to Inspect the Engine Air Cleaner/Filter

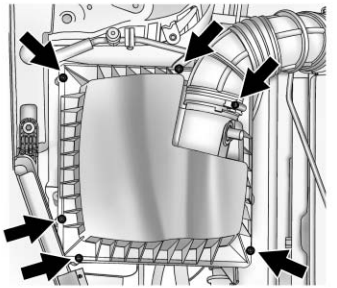
To inspect the air cleaner/filter, remove the filter from the vehicle and lightly shake the filter to release loose dust and dirt. If the filter remains caked with dirt, a new filter is required.

To inspect or replace the engine air cleaner/filter:

1.4 L L4 Engine



1.8 L L4 Engine



1. Remove the 6 screws that secure the cover on.
2. Lift off the cover.
3. Inspect or replace the engine air cleaner/filter.

Information Provided by:
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4. Align the filter correctly.
5. Install the cover by lowering it over the filter and secure with the 6 screws.

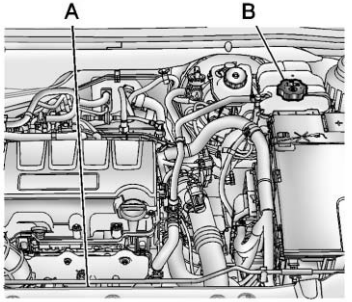
⚠ WARNING

Operating the engine with the air cleaner/filter off can cause you or others to be burned. The air cleaner not only cleans the air; it helps to stop flames if the engine backfires. Use caution when working on the engine and do not drive with the air cleaner/filter off.

Notice: **If the air cleaner/filter is off, dirt can easily get into the engine, which could damage it. Always have the air cleaner/filter in place when you are driving.**

Cooling System

The cooling system allows the engine to maintain the correct working temperature.



1.4 L L4 Engine Shown, 1.8 L L4 Engine Similar

A. Engine Cooling Fans (Out of View)
B. Engine Coolant Surge Tank and Pressure Cap

⚠ WARNING

An electric engine cooling fan under the hood can start up even when the engine is not running and can cause injury. Keep hands, clothing, and tools away from any underhood electric fan.

⚠ WARNING

Heater and radiator hoses, and other engine parts, can be very hot. Do not touch them. If you do, you can be burned.

Do not run the engine if there is a leak. If you run the engine, it could lose all coolant. That could cause an engine fire, and you could be burned. Get any leak fixed before you drive the vehicle.

Information Provided by: DEALER E-PROCESS

Notice: **Using coolant other than DEX-COOL® can cause premature engine, heater core, or radiator corrosion. In addition, the engine coolant could require changing sooner, at 50 000 km (30,000 mi) or 24 months, whichever occurs first. Any repairs would not be covered by the vehicle warranty. Always use DEX-COOL (silicate-free) coolant in the vehicle.**

Engine Coolant

The cooling system in the vehicle is filled with DEX-COOL engine coolant. This coolant is designed to remain in the vehicle for 5 years or 240 000 km (150,000 mi), whichever occurs first.

The following explains the cooling system and how to check and add coolant when it is low. If there is a problem with engine overheating, see *Engine Overheating on page 10-20*.

What to Use

⚠ WARNING

Adding only plain water or some other liquid to the cooling system can be dangerous. Plain water and other liquids, can boil before the proper coolant mixture will. The vehicle coolant warning system is set for the proper coolant mixture. With plain water or the wrong mixture, the engine could get too hot but you would not get the overheat warning. The engine could catch fire and you or others could be burned. Use a 50/50 mixture of clean, drinkable water and DEX-COOL coolant.

Use a 50/50 mixture of clean, drinkable water and DEX-COOL coolant. If using this mixture, nothing else needs to be added. This mixture:

- Gives freezing protection down to −37°C (−34°F), outside temperature.
- Gives boiling protection up to 129°C (265°F), engine temperature.
- Protects against rust and corrosion.
- Will not damage aluminum parts.
- Helps keep the proper engine temperature.

Notice: **If an improper coolant mixture is used, the engine could overheat and be badly damaged. The repair cost would not be covered by the vehicle warranty. Too much water in the mixture can freeze and crack the engine, radiator, heater core, and other parts.**

Information Provided by: DEALER E-PROCESS

Never dispose of engine coolant by putting it in the trash, pouring it on the ground, into sewers, into streams or bodies of water. Have the coolant changed by an authorized service center, familiar with legal requirements regarding used coolant disposal. This will help protect the environment and your health.

Checking Coolant

The vehicle must be on a level surface when checking the coolant level.

Check to see if coolant is visible in the coolant surge tank. If the coolant inside the coolant surge tank is boiling, do not do anything else until it cools down. If coolant is visible but the coolant level is not at the indicated mark, add a 50/50 mixture of clean, drinkable water and DEX-COOL coolant at the coolant surge tank, but be sure the cooling system is cool before this is done.

See *Engine Overheating on page 10-20* for more information.

The coolant surge tank is located in the engine compartment on the driver side of the vehicle. See *Engine Compartment Overview on page 10-6* for more information on location.

How to Add Coolant to the Coolant Surge Tank

Notice: **This vehicle has a specific coolant fill procedure. Failure to follow this procedure could cause the engine to overheat and be severely damaged.**

If no problem is found, check to see if coolant is visible in the coolant surge tank. If coolant is visible but the coolant level is not at the indicated level mark, add a 50/50 mixture of clean, drinkable water and DEX-COOL coolant at the coolant surge tank, but be sure the cooling system, including the coolant surge tank pressure cap, is cool before you do it.

⚠ WARNING

Steam and scalding liquids from a hot cooling system can blow out and burn you badly. They are under pressure, and if you turn the coolant surge tank pressure cap — even a little — they can come out at high speed. Never turn the cap when the cooling system, including the coolant surge tank pressure cap, is hot. Wait for the cooling system and coolant surge tank pressure cap to cool if you ever have to turn the pressure cap.

Provided by: DEALER E-PROCESS

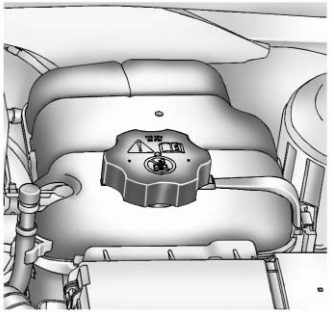
⚠ WARNING

Adding only plain water or some other liquid to the cooling system can be dangerous. Plain water and other liquids, can boil before the proper coolant mixture will. The vehicle coolant warning system is set for the proper coolant mixture. With plain water or the wrong mixture, the engine could get too hot but you would not get the overheat warning. The engine could catch fire and you or others could be burned. Use a 50/50 mixture of clean, drinkable water and DEX-COOL coolant.

Notice: **In cold weather, water can freeze and crack the engine, radiator, heater core and other parts. Use the recommended coolant and the proper coolant mixture.**

⚠ WARNING

You can be burned if you spill coolant on hot engine parts. Coolant contains ethylene glycol and it will burn if the engine parts are hot enough. Do not spill coolant on a hot engine.



1.4 L L4 Engine Shown, 1.8 L L4 Engine Similar

1. Remove the coolant surge tank pressure cap when the cooling system, including the coolant surge tank pressure cap and upper radiator hose, is no longer hot.

 Turn the pressure cap slowly counterclockwise about one-quarter of a turn. If you hear a hiss, wait for that to stop. This will allow any pressure still left to be vented out the discharge hose.

Information Provided by: DEALER E-PROCESS

2. Then keep turning the pressure cap slowly and remove it.
3. Fill the coolant surge tank with the proper DEX-COOL coolant mixture to the indicated level mark.
4. With the coolant surge tank pressure cap off, start the engine and let it run until the upper radiator hose can be felt getting hot. Watch out for the engine cooling fans.

 By this time, the coolant level inside the coolant surge tank may be lower. If the level is lower, add more of the proper DEX-COOL coolant mixture to the coolant surge tank until the level reaches the indicated level mark.
5. Then replace the pressure cap. Be sure the pressure cap is hand-tight.

Check the level in the coolant surge tank when the cooling system has cooled down. If the coolant is not at the proper level, repeat Steps 1 through 3 and reinstall the pressure cap. If the coolant still is not at the proper level when the system cools down again, see your dealer.

Engine Overheating

The vehicle has several indicators to warn of engine overheating.

There is an engine coolant temperature gauge on the vehicle instrument panel cluster. See *Engine Coolant Temperature Gauge on page 5-10*.

If the decision is made not to lift the hood when this warning appears, get service help right away. See *Roadside Assistance Program on page 13-6*.

If the decision is made to lift the hood, make sure the vehicle is parked on a level surface.

Check to see if the engine cooling fans are running. If the engine is overheating, both fans should be running. If they are not, do not continue to run the engine and have the vehicle serviced.

Notice: **Engine damage from running the engine without coolant is not covered by the warranty.**

Information Provided by: DEALER E-PROCESS

If Steam is Coming from the Engine Compartment

⚠ WARNING

Steam from an overheated engine can burn you badly, even if you just open the hood. Stay away from the engine if you see or hear steam coming from it. Just turn it off and get everyone away from the vehicle until it cools down. Wait until there is no sign of steam or coolant before you open the hood.

If you keep driving when the engine is overheated, the liquids in it can catch fire. You or others could be badly burned. Stop the engine if it overheats, and get out of the vehicle until the engine is cool.

If No Steam is Coming from the Engine Compartment

If an engine overheat warning is displayed but no steam can be seen or heard, the problem may not be too serious. Sometimes the engine can get a little too hot when the vehicle:

- Climbs a long hill on a hot day
- Stops after high-speed driving
- Idles for long periods in traffic
- Tows a trailer

If the overheat warning is displayed with no sign of steam:

1. Turn the air off.
2. Turn the heater on to the highest temperature and to the highest fan speed. Open the windows as necessary.
3. In heavy traffic, let the engine idle in N (Neutral) while stopped. If it is safe to do so, pull off the road, shift to P (Park) or N (Neutral) and let the engine idle.

If the temperature overheat gauge is no longer in the overheat zone or an overheat warning no longer displays, the vehicle can be driven. Continue to drive the vehicle slowly for about 10 minutes. Keep a safe vehicle distance from the vehicle in front. If the warning does not come back on, continue to drive normally.

If the warning continues, pull over, stop, and park the vehicle right away.

If there is no sign of steam, idle the engine for three minutes while parked. If the warning is still displayed, turn off the engine until it cools down. Also, see “Overheated Engine Protection Operating Mode” following.

Information Provided by: DEALER E-PROCESS

Overheated Engine Protection Operating Mode

This emergency operating mode allows the vehicle to be driven to a safe place in an emergency situation. If an overheated engine condition exists, an overheat protection mode which alternates firing groups of cylinders helps prevent engine damage. In this mode, a significant loss in power and engine performance will be noticed. The temperature gauge will indicate an overheat condition exists. Driving extended km (mi) and/or towing a trailer in the overheat protection mode should be avoided.

Notice: **After driving in the overheated engine protection operating mode, to avoid engine damage, allow the engine to cool before attempting any repair. The engine oil will be severely degraded. Repair the cause of coolant loss, change the oil and reset the oil life system. See *Engine Oil on page 10-9*.**

Power Steering Fluid

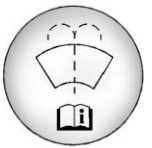
The vehicle is equipped with an electric power steering system. No fluid or general maintenance is required.

Washer Fluid

What to Use

When windshield washer fluid is needed, be sure to read the manufacturer's instructions before use. If operating the vehicle in an area where the temperature may fall below freezing, use a fluid that has sufficient protection against freezing.

Adding Washer Fluid



Open the cap with the washer symbol on it. Add washer fluid until the tank is full. See *Engine Compartment Overview on page 10-6* for reservoir location.

Information Provided by: DEALER E-PROCESS

Notice:

- **When using concentrated washer fluid, follow the manufacturer's instructions for adding water.**
- **Do not mix water with ready-to-use washer fluid. Water can cause the solution to freeze and damage the washer fluid tank and other parts of the washer system. Also, water does not clean as well as washer fluid.**
- **Fill the washer fluid tank only three-quarters full when it is very cold. This allows for fluid expansion if freezing occurs, which could damage the tank if it is completely full.**
- **Do not use engine coolant (antifreeze) in the windshield washer. It can damage the windshield washer system and paint.**

Brakes

This vehicle has front disc brakes and could have rear drum brakes or rear disc brakes.

Disc brake pads have built-in wear indicators that make a high-pitched warning sound when the brake pads are worn and new pads are needed. The sound can come and go or be heard all the time the vehicle is moving, except when applying the brake pedal firmly.

⚠ WARNING

The brake wear warning sound means that soon the brakes will not work well. That could lead to a crash. When the brake wear warning sound is heard, have the vehicle serviced.

Notice: **Continuing to drive with worn-out brake pads could result in costly brake repair.**

Some driving conditions or climates can cause a brake squeal when the brakes are first applied or lightly applied. This does not mean something is wrong with the brakes.

Properly torqued wheel nuts are necessary to help prevent brake pulsation. When tires are rotated, inspect brake pads for wear and evenly tighten wheel nuts in the proper sequence to torque specifications in *Capacities and Specifications on page 12-2*.

If the vehicle has rear drum brakes, they do not have wear indicators, but if a rear brake rubbing noise is heard, have the rear brake linings inspected immediately. Rear brake drums should be removed and inspected each time the tires are removed for rotation or changing. Drum brakes have an inspection hole to inspect lining wear during scheduled maintenance. When the front brake pads are replaced, have the rear brakes inspected, too.

Information Provided by: DEALER E-PROCESS

Brake linings should always be replaced as complete axle sets.

Brake Pedal Travel

See your dealer if the brake pedal does not return to normal height, or if there is a rapid increase in pedal travel. This could be a sign that brake service might be required.

Brake Adjustment

Every time the brakes are applied, with or without the vehicle moving, the brakes adjust for wear.

Replacing Brake System Parts

The braking system on a vehicle is complex. Its many parts have to be of top quality and work well together if the vehicle is to have really good braking. The vehicle was designed and tested with top-quality brake parts. When parts of the braking system are replaced, be sure to get new, approved replacement parts. If this is not done, the brakes might not work properly. For example, installing disc brake pads that are wrong for the vehicle, can change the balance between the front and rear brakes — for the worse. The braking performance expected can change in many other ways if the wrong replacement brake parts are installed.

Brake Fluid



The brake master cylinder reservoir is filled with DOT 3 brake fluid as indicated on the reservoir cap. See *Engine Compartment Overview on page 10-6* for the location of the reservoir.

There are only two reasons why the brake fluid level in the reservoir might go down:

- The brake fluid level goes down because of normal brake lining wear. When new linings are installed, the fluid level goes back up.
- A fluid leak in the brake hydraulic system can also cause a low fluid level. Have the brake hydraulic system fixed, since a leak means that sooner or later the brakes will not work well.

Information Provided by: DEALER E-PROCESS

Do not top off the brake fluid. Adding fluid does not correct a leak. If fluid is added when the linings are worn, there will be too much fluid when new brake linings are installed. Add or remove brake fluid, as necessary, only when work is done on the brake hydraulic system.

⚠ WARNING

If too much brake fluid is added, it can spill on the engine and burn, if the engine is hot enough. You or others could be burned, and the vehicle could be damaged. Add brake fluid only when work is done on the brake hydraulic system.

When the brake fluid falls to a low level, the brake warning light comes on. See *Brake System Warning Light on page 5-16*.

What to Add

Use only new DOT 3 brake fluid from a sealed container. See *Recommended Fluids and Lubricants on page 11-6*.

Always clean the brake fluid reservoir cap and the area around the cap before removing it. This helps keep dirt from entering the reservoir.

⚠ WARNING

With the wrong kind of fluid in the brake hydraulic system, the brakes might not work well. This could cause a crash. Always use the proper brake fluid.

Notice:

- **Using the wrong fluid can badly damage brake hydraulic system parts. For example, just a few drops of mineral-based oil, such as engine oil, in the brake hydraulic system can damage brake hydraulic system parts so badly that they will have to be replaced. Do not let someone put in the wrong kind of fluid.**
- **If brake fluid is spilled on the vehicle's painted surfaces, the paint finish can be damaged. Be careful not to spill brake fluid on the vehicle. If you do, wash it off immediately.**

Information Provided by: DEALER E-PROCESS

Battery

Refer to the replacement number on the original battery label when a new battery is needed.

⚠ DANGER

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

Vehicle Storage

⚠ WARNING

Batteries have acid that can burn you and gas that can explode. You can be badly hurt if you are not careful. See *Jump Starting on page 10-84* for tips on working around a battery without getting hurt.

Infrequent Usage: Remove the black, negative (−) cable from the battery to keep the battery from running down.

Extended Storage: Remove the black, negative (−) cable from the battery or use a battery trickle charger.

Starter Switch Check

⚠ WARNING

When you are doing this inspection, the vehicle could move suddenly. If the vehicle moves, you or others could be injured.

1. Before starting this check, be sure there is enough room around the vehicle.
2. Firmly apply both the parking brake and the regular brake. See *Parking Brake on page 9-32*.

 Do not use the accelerator pedal, and be ready to turn off the engine immediately if it starts.

Information Provided by: DEALER E-PROCESS

3. For automatic transmission vehicles, try to start the engine in each gear. The vehicle should start only in P (Park) or N (Neutral). If the vehicle starts in any other position, contact your dealer for service.

 For manual transmission vehicles, put the shift lever in Neutral, push the clutch pedal down halfway, and try to start the engine. The vehicle should start only when the clutch pedal is pushed down all the way to the floor. If the vehicle starts when the clutch pedal is not pushed all the way down, contact your dealer for service.

Automatic Transmission Shift Lock Control Function Check

⚠ WARNING

When you are doing this inspection, the vehicle could move suddenly. If the vehicle moves, you or others could be injured.

1. Before starting this check, be sure there is enough room around the vehicle. It should be parked on a level surface.
2. Firmly apply the parking brake. See *Parking Brake on page 9-32*.

 Be ready to apply the regular brake immediately if the vehicle begins to move.
3. With the engine off, turn the ignition on, but do not start the engine. Without applying the regular brake, try to move the shift lever out of P (Park) with normal effort. If the shift lever moves out of P (Park), contact your dealer for service.

Information Provided by: DEALER E-PROCESS

Ignition Transmission Lock Check

While parked, and with the parking brake set, try to turn the ignition to LOCK/OFF in each shift lever position.

- For automatic transmission vehicles, the ignition should turn to LOCK/OFF only when the shift lever is in P (Park). The ignition key should come out only in LOCK/OFF.
- For manual transmission vehicles, the ignition key should come out only in LOCK/OFF.

Contact your dealer if service is required.

Park Brake and P (Park) Mechanism Check

⚠ WARNING

When you are doing this check, the vehicle could begin to move. You or others could be injured and property could be damaged. Make sure there is room in front of the vehicle in case it begins to roll. Be ready to apply the regular brake at once should the vehicle begin to move.

Park on a fairly steep hill, with the vehicle facing downhill. Keeping your foot on the regular brake, set the parking brake.

- To check the parking brake's holding ability: With the engine running and the transmission in N (Neutral), slowly remove foot pressure from the regular brake pedal. Do this until the vehicle is held by the parking brake only.
- To check the P (Park) mechanism's holding ability: With the engine running, shift to P (Park). Then release the parking brake followed by the regular brake.

Contact your dealer if service is required.

Information Provided by: DEALER E-PROCESS

Wiper Blade Replacement

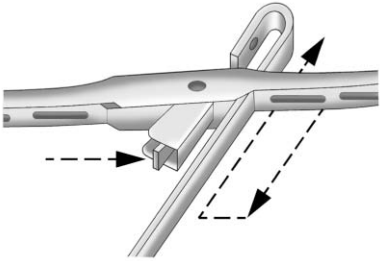
Windshield wiper blades should be inspected for wear or cracking. See *Scheduled Maintenance on page 11-2* for more information.

Replacement blades come in different types and are removed in different ways. For proper windshield wiper blade length and type, see *Maintenance Replacement Parts on page 11-8*.

Notice: **Allowing the wiper blade arm to touch the windshield when no wiper blade is installed could damage the windshield. Any damage that occurs would not be covered by your warranty. Do not allow the wiper blade arm to touch the windshield.**

To replace the windshield wiper blade:

1. Pull the wiper assembly away from the windshield.



2. Lift up on the plastic latch in the middle of the wiper blade where the wiper arm attaches.
3. With the latch open, pull the wiper blade down toward the windshield far enough to release it from the J-hooked end of the wiper arm.
4. Remove the wiper blade.

 Allowing the wiper blade arm to touch the windshield when no wiper blade is installed could damage the windshield. Any damage that occurs would not be covered by the vehicle warranty. Do not allow the wiper blade to touch the windshield.
5. Reverse steps 1 through 3 for wiper blade replacement.

Windshield Replacement

Your vehicle is equipped with an acoustic windshield. If you ever have to have your windshield replaced be sure to get an acoustic windshield so you will continue to have the benefits an acoustic windshield can provide.

Information Provided by:
DEALER E-PROCESS

Headlamp Aiming

Headlamp aim has been preset at the factory and should need no further adjustment.

However, if the vehicle is damaged in a crash, the headlamp aim may be affected. Aim adjustment to the low-beam headlamps may be necessary if oncoming drivers flash their high-beam headlamps at you (for vertical aim).

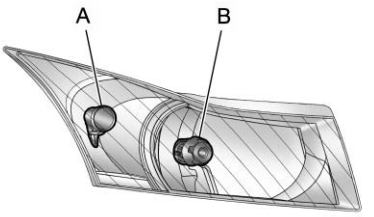
If the headlamps need to be re-aimed, it is recommended that the vehicle be taken to a dealer for service.

Bulb Replacement

For the proper type of replacement bulbs, see *Replacement Bulbs on page 10-36*.

For any bulb changing procedure not listed in this section, contact your dealer.

Headlamps, Front Turn Signal, Sidemarker, and Parking Lamps



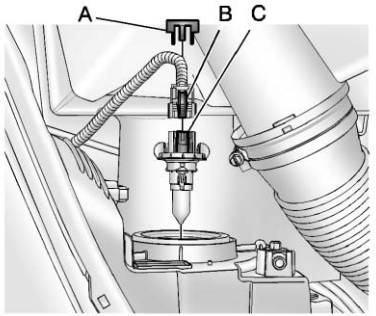
A. Parking/Turn Signal Lamp

B. High-Beam Headlamp/ Low-Beam Headlamp and DRL

Information Provided by:
DEALER E-PROCESS

High-Beam Headlamp/ Low-Beam Headlamp and DRL

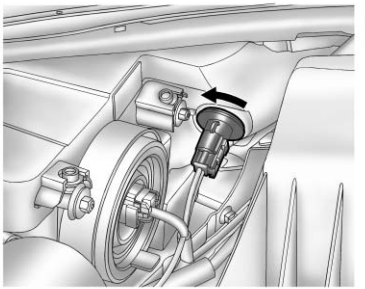
1. Open the hood. See *Hood on page 10-4*.



2. Remove the connector retaining tab (A).
3. Disconnect the wiring harness connector from the bulb (C) by pressing the connector release (B) and pulling straight back.
4. Remove the bulb (C) from the headlamp assembly by turning counterclockwise and pulling straight back.
5. Install the new bulb in the headlamp assembly by turning clockwise.
6. Install the wiring harness connector to the bulb. Be sure the connector release (B) locks into place.
7. Install the connector retaining tab (A).

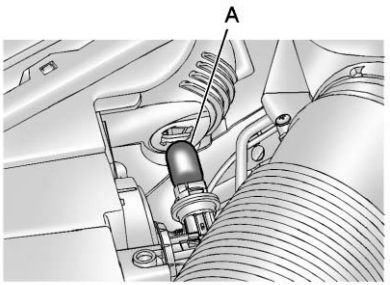
Parking/Turn Signal Lamp

1. Open the hood. See *Hood on page 10-4*.



2. Remove the parking/turn signal lamp bulb socket from the headlamp assembly by turning counterclockwise.

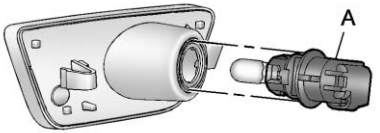
Information Provided by:
DEALER E-PROCESS



3. Remove the bulb (A) from the bulb socket.
4. Install the new bulb in the bulb socket.
5. Install the bulb socket into the headlamp assembly by turning clockwise.

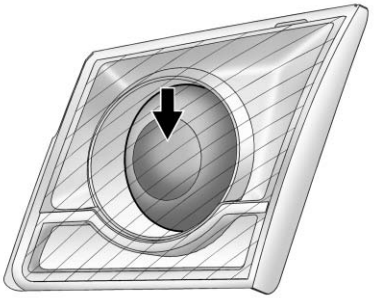
Side Marker Lamp

1. Push lamp assembly toward the rear of the vehicle and remove.



2. Remove the socket from the lamp assembly by turning counterclockwise.
3. Remove the bulb from the bulb socket (A).
4. Install the new bulb in the bulb socket.
5. Replace the bulb socket into the headlamp assembly by turning clockwise.
6. Replace the lamp assembly.

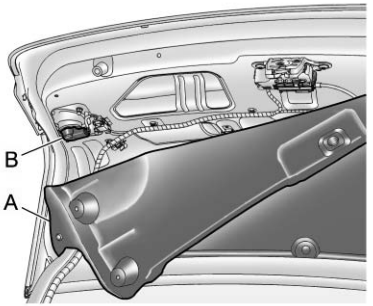
Taillamps, Turn Signal, Sidemarker, Stoplamps, and Back-Up Lamps



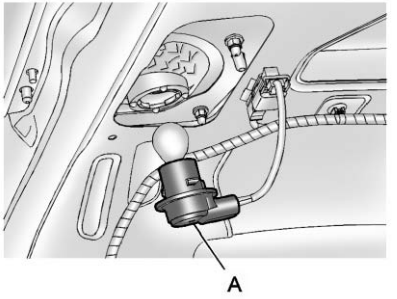
Trunk Deck Inboard Taillamps

1. Open the trunk.

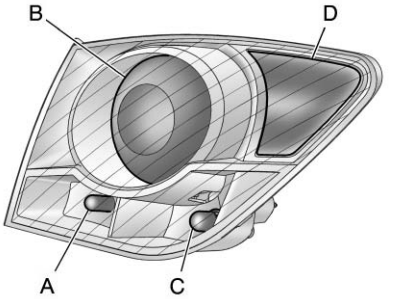
Information Provided by:
DEALER E-PROCESS



2. Remove the trunk deck trim cover (A).
3. Remove the bulb socket (B) by turning counterclockwise and pulling straight out.



4. Remove the bulb from the socket (A).
5. Install the new bulb in the bulb socket.
6. Install the bulb socket by turning clockwise.
7. Install the trunk deck trim cover.



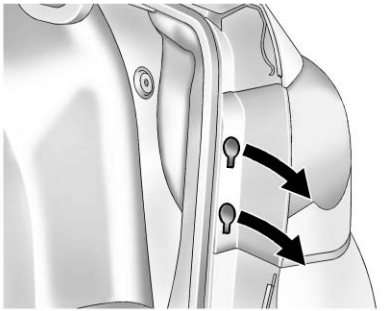
A. Back-up Lamp
B. Stop Lamp/Taillamp
C. Turn Signal Lamp
D. Sidemarker Lamp

Information Provided by:
DEALER E-PROCESS

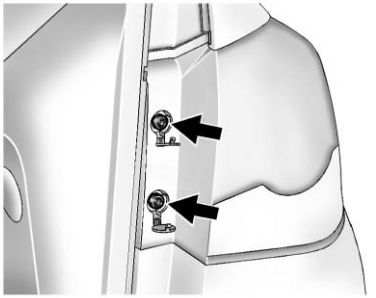
To replace any one of these bulbs:

Stoplamp/Taillamp, Turn Signal, Back-up, and Sidemarker Lamp

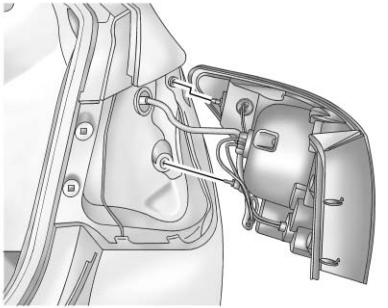
1. Open the trunk.



2. Open the two screw covers.

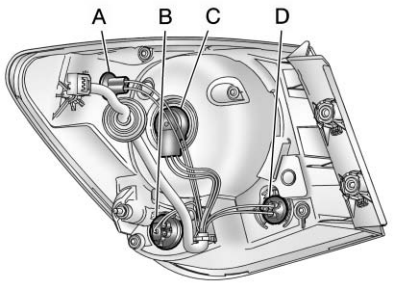


3. Remove the two screws, which secure the taillamp assembly.



4. Remove the taillamp assembly by pulling it straight back until the two posts disengage from the grommets.

Information Provided by:
DEALER E-PROCESS

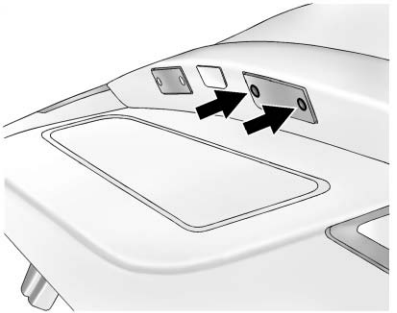


A. Sidemarker Lamp
B. Turn Signal Lamp
C. Stop Lamp/Taillamp
D. Back-up Lamp

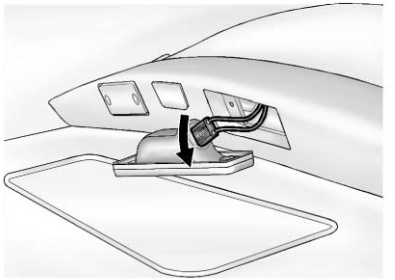
5. Remove the bulb socket from the taillamp assembly by turning it counterclockwise.
6. Install a new bulb into the bulb socket.
7. Install the bulb socket into the taillamp assembly by turning it clockwise.
8. Install the taillamp assembly and tighten the two screws.
9. Close the two screw covers.

License Plate Lamp

To replace the license plate lamp bulb:



1. Remove the two screws from the license plate lamp assembly.



2. Turn and pull the license plate lamp assembly down.
3. Turn the bulb socket counterclockwise and pull the bulb straight out of the socket.
4. Push the new bulb in and turn it clockwise to install.
5. Install the bulb socket by turning clockwise into the license plate lamp assembly.
6. Replace the license plate lamp assembly by using the two screws to secure.

Information Provided by:
DEALER E-PROCESS

Replacement Bulbs

Exterior Lamp	Bulb Number
Back-Up Lamp	921K
Front and Rear Sidemarker Lamp	194
Front Parking/Turn Signal Lamp	7444NA
High Beam/Low Beam and DRL Headlamp	H13LL
Rear Turn Signal Lamp	7443NA
Stop Lamp/Taillamp	3057K LCP

For replacement bulbs not listed here, contact your dealer.

Electrical System

Electrical System Overload

The vehicle has fuses and circuit breakers to protect against an electrical system overload.

When the current electrical load is too heavy, the circuit breaker opens and closes, protecting the circuit until the current load returns to normal or the problem is fixed. This greatly reduces the chance of circuit overload and fire caused by electrical problems.

Fuses and circuit breakers protect the following in the vehicle:

- Headlamp Wiring
- Windshield Wiper Motor
- Power Windows and Other Power Accessories

Replace a bad fuse with a new one of the identical size and rating.

If there is a problem on the road and a fuse needs to be replaced, the same amperage fuse can be borrowed. Choose some feature of the vehicle that is not needed to use and replace it as soon as possible.

Headlamp Wiring

An electrical overload may cause the lamps to go on and off, or in some cases to remain off. Have the headlamp wiring checked right away if the lamps go on and off or remain off.

Information Provided by: DEALER E-PROCESS

Windshield Wipers

If the wiper motor overheats due to heavy snow or ice, the windshield wipers will stop until the motor cools and will then restart.

Although the circuit is protected from electrical overload, overload due to heavy snow or ice may cause wiper linkage damage. Always clear ice and heavy snow from the windshield before using the windshield wipers.

If the overload is caused by an electrical problem and not snow or ice, be sure to get it fixed.

Fuses and Circuit Breakers

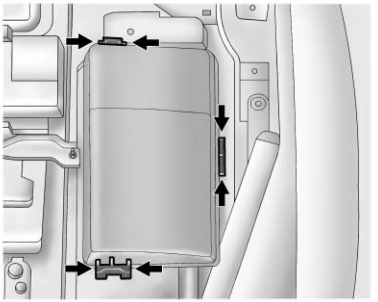
The wiring circuits in the vehicle are protected from short circuits by a combination of fuses and circuit breakers. This greatly reduces the chance of damage caused by electrical problems.

To check a fuse, look at the silver-colored band inside the fuse. If the band is broken or melted, replace the fuse. Be sure to replace a bad fuse with a new one of the identical size and rating.

Fuses of the same amperage can be temporarily borrowed from another fuse location, if a fuse goes out. Replace the fuse as soon as possible.

To identify and check fuses, circuit breakers, and relays, see *Engine Compartment Fuse Block on page 10-37* and *Instrument Panel Fuse Block on page 10-41*.

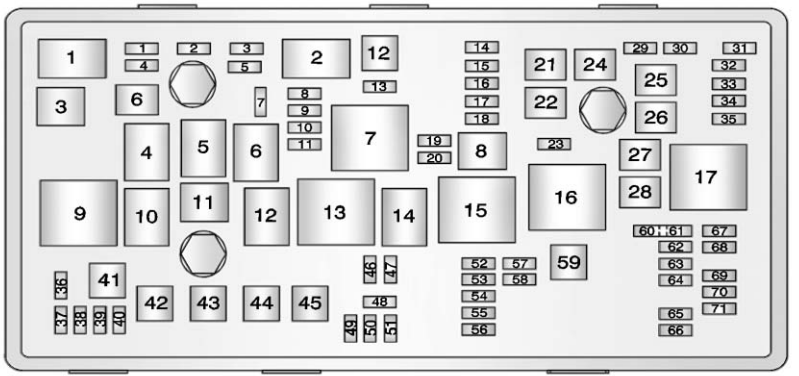
Engine Compartment Fuse Block



To remove the fuse block cover, squeeze the clips and swing it up.

Notice: **Spilling liquid on any electrical component on the vehicle may damage it. Always keep the covers on any electrical component.**

Information Provided by:
DEALER E-PROCESS



Engine Compartment Fuse Block

The vehicle may not be equipped with all of the fuses, relays, and features shown.

Mini Fuses	Usage
1	Transmission Control Module
2	Engine Control Module

Mini Fuses	Usage
3	Not Used
4	Canister Vent Solenoid
5	Ignition
7	Not Used

Mini Fuses	Usage
8	Fuel Injection
9	Fuel Injection/ Ignition System
10	Engine Control Module
11	Lambda Sensor
13	Canister Vent Solenoid
14	Not Used
15	Rear Wiper
16	Ignition/Air Quality Sensor/Aero-Shutter
17	Ignition/Airbag
18	Fuel Control Module
19	Not Used
20	Fuel Pump
23	Not Used
29	Not Used

Information Provided by:
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Mini Fuses	Usage
30	Antilock Brake System
31	Body Control Module
32	Body Control Module
33	Front Seat Heating
34	Sunroof (If Equipped)
35	Infotainment System/Amplifier
36	Not Used
37	High Beam Right Side
38	High Beam Left Side
39	Not Used
40	Not Used
46	Cooling Fan

Mini Fuses	Usage
47	Lambda Sensor
48	Fog Lights
49	Not Used
50	Not Used
51	Horn
52	Ignition
53	Automatic Dimming Rearview Mirror
54	Light Switch/Light Control
55	Mirror Folding
56	Windshield Washer
57	Steering Column Lock
58	Not Used
60	Heated Mirror
61	Heated Mirror

Mini Fuses	Usage
62	Air Conditioning
63	Rear Window Sensor
64	Air Quality Sensor
65	Rear Fog Lamp
66	Rear Washer
67	Fuel System Control Module
68	Not Used
69	Battery Voltage Sensor
70	Rain Sensor
71	Not Used

Information Provided by:
DEALER E-PROCESS

J-Case Fuses	Usage
6	Front Wipers
12	Starter Solenoid
21	Rear Power Windows
22	Not Used
24	Front Power Windows
25	Electronic Vacuum Pump
26	Antilock Brake System Pump
27	Electronic Key System
28	Rear Window Defogger
41	Not Used
42	Cooling Fan K2

J-Case Fuses	Usage
43	Not Used
44	Not Used
45	Cooling Fan K1
59	Not Used

Micro Relays	Usage
1	A/C Clutch
2	Starter Solenoid
4	Front Wiper Speed
5	Front Wiper On
6	Not Used
10	Cooling Fan K3
12	Cooling Fan K3
14	Not Used

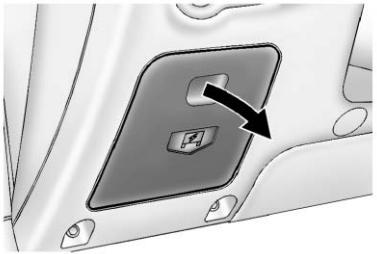
U-Micro Relays	Usage
3	Cooling Fan K7
8	Fuel Pump
11	Not Used

HC Relays	Usage
9	Cooling Fan K2
13	Cooling Fan K1

Mini Relays	Usage
7	Ignition 57 Main
15	Ignition 15
16	Not Used
17	Not Used

Information Provided by:
DEALER E-PROCESS

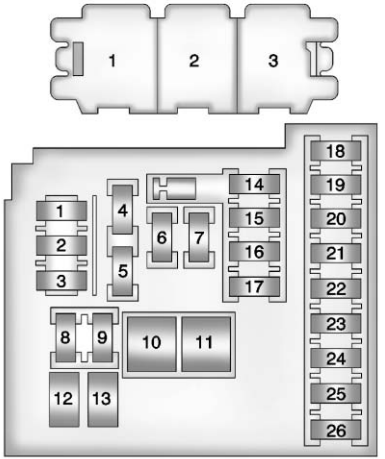
Instrument Panel Fuse Block



The instrument panel fuse block is in the driver side of instrument panel. To access the fuses:

1. Open the fuse block cover by pulling out at the top.
2. Remove the lower edge of the cover.
3. Remove the cover.

To reinstall the cover, reverse the steps above.



Instrument Panel Fuse Block

The vehicle may not be equipped with all of the fuses, relays, and features shown.

Fuses	Usage
1	Infotainment System/Hands-free Phone
2	Not Used
3	Body Control Module
4	Infotainment System
5	Information Display/ Parking Assist
6	Cigarette Lighter
7	Power Outlet
8	Body Control Module
9	Body Control Module
10	Body Control Module

Information Provided by:
DEALER E-PROCESS

Fuses	Usage
11	Interior Fan
12	Not Used
13	Power Seat
14	Diagnostic Connector
15	Airbag
16	Central Locking System/Tailgate
17	Air Conditioning System
18	Not Used
19	Not Used
20	Not Used
21	Instrument Cluster

Fuses	Usage
22	Ignition/Electronic Key System
23	Body Control Module
24	Body Control Module
25	Steering Column Lock
26	Not Used

Relays	Usage
1	Trunk Open
2	Logistics Module
3	Power Outlet

Wheels and Tires

Tires

This new vehicle comes with high-quality tires made by a leading tire manufacturer. If you ever have questions about the tire warranty and where to obtain service, see the vehicle Warranty booklet for details. For additional information refer to the tire manufacturer.

Information Provided by: DEALER E-PROCESS

⚠ WARNING

- Poorly maintained and improperly used tires are dangerous.
- Overloading the tires can cause overheating as a result of too much flexing. You could have a blowout and a serious accident. See *Vehicle Load Limits on page 9-12*.
- Under inflated tires pose the same danger as overloaded tires. The resulting crash could cause serious injury. Check all tires frequently to maintain the recommended pressure. Tire pressure should be checked when the tires are cold.
- Over inflated tires are more likely to be cut, punctured, or broken by a sudden

(Continued)

WARNING (Continued)

impact — such as when you hit a pothole. Keep tires at the recommended pressure.

- Worn or old tires can cause a crash. If the tread is badly worn, replace them.
- Replace any tires that have been damaged by impacts with potholes, curbs, etc.
- Improperly repaired tires can cause a crash. Only the dealer or an authorized tire service center should repair, replace, dismount, and mount the tires.
- Do not spin the tires in excess of 55 km/h (35 mph) on slippery surfaces such as snow, mud, ice, etc. Excessive spinning may cause the tires to explode.

Winter Tires

If you expect to drive on snow or ice covered roads often, you may want to get winter tires for the vehicle. All season tires provide good overall performance on most surfaces but they may not offer the traction you would like or the same level of performance as winter tires on snow or ice covered roads.

Winter tires, in general, are designed for increased traction on snow and ice covered roads. With winter tires, there may be decreased dry road traction, increased road noise, and shorter tread life. After switching to winter tires, be alert for changes in vehicle handling and braking.

See your dealer for details regarding winter tire availability and proper tire selection. Also, see *Buying New Tires on page 10-59*.

Information Provided by: DEALER E-PROCESS

If you choose to use winter tires:

- Use tires of the same brand and tread type on all four wheel positions.
- Use only radial ply tires of the same size, load range, and speed rating as the original equipment tires.

Winter tires with the same speed rating as the original equipment tires may not be available for H, V, W, Y, and ZR speed rated tires. If you choose winter tires with a lower speed rating, never exceed the tire's maximum speed capability.

Low-Profile Tires

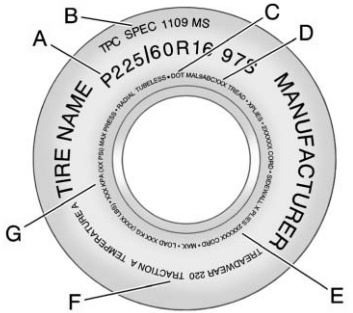
If this vehicle has P225/45R18 size tires, they are classified as low-profile tires. These tires are designed for very responsive driving on wet or dry pavement. You may also notice more road noise with low-profile performance tires and that they tend to wear faster.

Notice: **If the vehicle has low-profile tires, they are more susceptible to damage from road hazards or curb impact than standard profile tires. Tire and/or wheel assembly damage can occur when coming into contact with road hazards like, potholes, or sharp edged objects, or when sliding into a curb. The vehicle warranty does not cover this type of damage. Keep tires set to the correct inflation pressure and, when possible avoid contact with curbs, potholes, and other road hazards.**

Tire Sidewall Labeling

Useful information about a tire is molded into its sidewall. The examples below show a typical passenger vehicle tire and a compact spare tire sidewall.

Information Provided by: DEALER E-PROCESS



Passenger (P-Metric) Tire Example

(A) Tire Size: The tire size is a combination of letters and numbers used to define a particular tire's width, height, aspect ratio, construction type, and service description. See the "Tire Size" illustration later in this section for more detail.

(B) TPC Spec (Tire Performance Criteria Specification): Original equipment tires designed to GM's specific tire performance criteria have a TPC specification code molded onto the sidewall. GM's TPC specifications meet or exceed all federal safety guidelines.

(C) DOT (Department of Transportation): The Department of Transportation (DOT) code indicates that the tire is in compliance with the U.S. Department of Transportation Motor Vehicle Safety Standards.

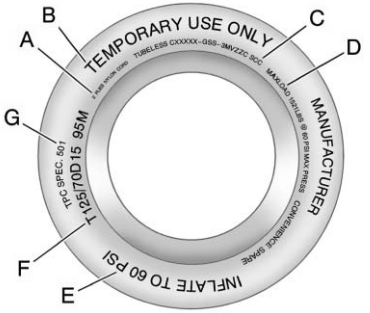
(D) Tire Identification Number (TIN): The letters and numbers following the DOT (Department of Transportation) code is the Tire Identification Number (TIN). The TIN shows the manufacturer and plant code, tire size, and date the tire was manufactured. The TIN is molded onto both sides of the tire, although only one side may have the date of manufacture.

(E) Tire Ply Material: The type of cord and number of plies in the sidewall and under the tread.

(F) Uniform Tire Quality Grading (UTQG): Tire manufacturers are required to grade tires based on three performance factors: treadwear, traction, and temperature resistance. For more information see *Uniform Tire Quality Grading on page 10-62*.

(G) Maximum Cold Inflation Load Limit: Maximum load that can be carried and the maximum pressure needed to support that load.

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Compact Spare Tire Example

(A) Tire Ply Material: The type of cord and number of plies in the sidewall and under the tread.

(B) Temporary Use Only: The compact spare tire or temporary use tire has a tread life of approximately 5 000 km (3,000 miles) and should not be driven at speeds over 105 km/h (65 mph). The compact spare tire is for emergency use when a regular road tire has lost air and gone flat. If the vehicle has a compact spare tire, see *Compact Spare Tire on page 10-83* and*If a Tire Goes Flat on page 10-65*.

(C) Tire Identification Number (TIN): The letters and numbers following the DOT (Department of Transportation) code is the Tire Identification Number (TIN). The TIN shows the manufacturer and plant code, tire size, and date the tire was manufactured. The TIN is molded onto both sides of the tire, although only one side may have the date of manufacture.

(D) Maximum Cold Inflation Load Limit: Maximum load that can be carried and the maximum pressure needed to support that load.

(E) Tire Inflation: The temporary use tire or compact spare tire should be inflated to 420 kPa (60 psi). For more information on tire pressure and inflation see *Tire Pressure on page 10-50*.

(F) Tire Size: A combination of letters and numbers define a tire's width, height, aspect ratio, construction type, and service description. The letter T as the first character in the tire size means the tire is for temporary use only.

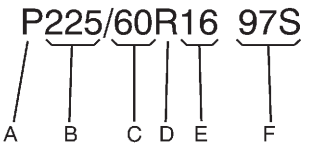
(G) TPC Spec (Tire Performance Criteria Specification): Original equipment tires designed to GM's specific tire performance criteria have a TPC specification code molded onto the sidewall. GM's TPC specifications meet or exceed all federal safety guidelines.

Information provided by DEALER E-PROCESS

Tire Designations

Tire Size

The following illustration shows an example of a typical passenger vehicle tire size.



(A) Passenger (P-Metric) Tire: The United States version of a metric tire sizing system. The letter P as the first character in the tire size means a passenger vehicle tire engineered to standards set by the U.S. Tire and Rim Association.

(B) Tire Width: The three-digit number indicates the tire section width in millimeters from sidewall to sidewall.

(C) Aspect Ratio: A two-digit number that indicates the tire height-to-width measurements. For example, if the tire size aspect ratio is 60, as shown in item C of the illustration, it would mean that the tire's sidewall is 60 percent as high as it is wide.

(D) Construction Code: A letter code is used to indicate the type of ply construction in the tire. The letter R means radial ply construction; the letter D means diagonal or bias ply construction; and the letter B means belted-bias ply construction.

(E) Rim Diameter: Diameter of the wheel in inches.

(F) Service Description: These characters represent the load index and speed rating of the tire. The load index represents the load carrying capacity a tire is certified to carry. The speed rating is the maximum speed a tire is certified to carry a load.

Tire Terminology and Definitions

Air Pressure: The amount of air inside the tire pressing outward on each square inch of the tire. Air pressure is expressed in psi (pounds per square inch) or kPa (kilopascal).

Accessory Weight: This means the combined weight of optional accessories. Some examples of optional accessories are, automatic transmission, power steering, power brakes, power windows, power seats, and air conditioning.

Aspect Ratio: The relationship of a tire's height to its width.

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Belt: A rubber coated layer of cords that is located between the plies and the tread. Cords may be made from steel or other reinforcing materials.

Bead: The tire bead contains steel wires wrapped by steel cords that hold the tire onto the rim.

Bias Ply Tire: A pneumatic tire in which the plies are laid at alternate angles less than 90 degrees to the centerline of the tread.

Cold Tire Pressure: The amount of air pressure in a tire, measured in kPa (kilopascal) or psi (pounds per square inch) before a tire has built up heat from driving. See *Tire Pressure on page 10-50*.

Curb Weight: The weight of a motor vehicle with standard and optional equipment including the maximum capacity of fuel, oil, and coolant, but without passengers and cargo.

DOT Markings: A code molded into the sidewall of a tire signifying that the tire is in compliance with the U.S. Department of Transportation (DOT) motor vehicle safety standards. The DOT code includes the Tire Identification Number (TIN), an alphanumeric designator which can also identify the tire manufacturer, production plant, brand, and date of production.

GVWR: Gross Vehicle Weight Rating. See *Vehicle Load Limits on page 9-12*.

GAWR FRT: Gross Axle Weight Rating for the front axle. See *Vehicle Load Limits on page 9-12*.

GAWR RR: Gross Axle Weight Rating for the rear axle. See *Vehicle Load Limits on page 9-12*.

Intended Outboard Sidewall: The side of an asymmetrical tire, that must always face outward when mounted on a vehicle.

Kilopascal (kPa): The metric unit for air pressure.

Light Truck (LT-Metric) Tire: A tire used on light duty trucks and some multipurpose passenger vehicles.

Load Index: An assigned number ranging from 1 to 279 that corresponds to the load carrying capacity of a tire.

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Maximum Inflation Pressure: The maximum air pressure to which a cold tire can be inflated. The maximum air pressure is molded onto the sidewall.

Maximum Load Rating: The load rating for a tire at the maximum permissible inflation pressure for that tire.

Maximum Loaded Vehicle Weight: The sum of curb weight, accessory weight, vehicle capacity weight, and production options weight.

Normal Occupant Weight: The number of occupants a vehicle is designed to seat multiplied by 68 kg (150 lbs). See *Vehicle Load Limits on page 9-12*.

Occupant Distribution: Designated seating positions.

Outward Facing Sidewall: The side of an asymmetrical tire that has a particular side that faces outward when mounted on a vehicle. The side of the tire that contains a whitewall, bears white lettering, or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same moldings on the other sidewall of the tire.

Passenger (P-Metric) Tire: A tire used on passenger cars and some light duty trucks and multipurpose vehicles.

Recommended Inflation Pressure: Vehicle manufacturer's recommended tire inflation pressure as shown on the tire placard. See *Tire Pressure on page 10-50* and *Vehicle Load Limits on page 9-12*.

Radial Ply Tire: A pneumatic tire in which the ply cords that extend to the beads are laid at 90 degrees to the centerline of the tread.

Rim: A metal support for a tire and upon which the tire beads are seated.

Sidewall: The portion of a tire between the tread and the bead.

Speed Rating: An alphanumeric code assigned to a tire indicating the maximum speed at which a tire can operate.

Traction: The friction between the tire and the road surface. The amount of grip provided.

Information Provided by:
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Tread: The portion of a tire that comes into contact with the road.

Treadwear Indicators: Narrow bands, sometimes called wear bars, that show across the tread of a tire when only 1.6 mm (1/16 in) of tread remains. See *When It Is Time for New Tires on page 10-58*.

UTQGS (Uniform Tire Quality Grading Standards): A tire information system that provides consumers with ratings for a tire's traction, temperature, and treadwear. Ratings are determined by tire manufacturers using government testing procedures. The ratings are molded into the sidewall of the tire. See *Uniform Tire Quality Grading on page 10-62*.

Vehicle Capacity Weight: The number of designated seating positions multiplied by 68 kg (150 lbs) plus the rated cargo load. See *Vehicle Load Limits on page 9-12*.

Vehicle Maximum Load on the Tire: Load on an individual tire due to curb weight, accessory weight, occupant weight, and cargo weight.

Vehicle Placard: A label permanently attached to a vehicle showing the vehicle capacity weight and the original equipment tire size and recommended inflation pressure. See “Tire and Loading Information Label” under *Vehicle Load Limits on page 9-12*.

Tire Pressure

Tires need the correct amount of air pressure to operate effectively.

Notice: **Do not let anyone tell you that underinflation or overinflation is all right. It is not. If the tires do not have enough air (underinflation), you can get the following:**

- **Tire overloading and over-heating which could lead to a blowout.**
- **Premature or irregular wear.**
- **Poor handling.**
- **Reduced fuel economy.**

If the tires have too much air (overinflation), you can get the following:

- **Unusual wear.**
- **Poor handling.**

Information Provided by: DEALER E-PROCESS

- **Rough ride.**
- **Needless damage from road hazards.**

A vehicle-specific Tire and Loading Information label is attached to the vehicle. This label shows the vehicle's original equipment tires and the correct inflation pressures for the tires when they are cold. The recommended cold tire inflation pressure, shown on the label, is the minimum amount of air pressure needed to support the vehicle's maximum load carrying capacity.

For additional information regarding how much weight the vehicle can carry, and an example of the Tire and Loading Information label, see *Vehicle Load Limits on page 9-12*. How you load the vehicle affects vehicle handling and ride comfort. Never load the vehicle with more weight than it was designed to carry.

When to Check

Check the tires once a month or more. Do not forget to check the compact spare tire, if the vehicle has one. The compact spare should be at 420 kPa (60 psi). For additional information regarding the compact spare tire, see *Compact Spare Tire on page 10-83*.

How to Check

Use a good quality pocket-type gauge to check tire pressure. You cannot tell if the tires are properly inflated simply by looking at them. Radial tires may look properly inflated even when they are under-inflated. Check the tire's inflation pressure when the tires are cold. Cold means the vehicle has been sitting for at least three hours or driven no more than 1.6 km (1 mile).

Remove the valve cap from the tire valve stem. Press the tire gauge firmly onto the valve to get a pressure measurement. If the cold tire inflation pressure matches the recommended pressure on the Tire and Loading Information label, no further adjustment is necessary. If the inflation pressure is low, add air until you reach the recommended amount.

If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve. Re-check the tire pressure with the tire gauge.

Be sure to put the valve caps back on the valve stems. They help prevent leaks by keeping out dirt and moisture.

Information Provided by: DEALER E-PROCESS

Tire Pressure Monitor System

The Tire Pressure Monitor System (TPMS) uses radio and sensor technology to check tire pressure levels. The TPMS sensors monitor the air pressure in your tires and transmit tire pressure readings to a receiver located in the vehicle.

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated.

Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly.

The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

See *Tire Pressure Monitor Operation on page 10-53* for additional information.

Information Provided by:
DEALER E-PROCESS

Federal Communications Commission (FCC) and Industry Canada

See *Radio Frequency Statement on page 13-16* for information regarding Part 15 of the Federal Communications Commission (FCC) rules and Industry Canada Standards RSS-210/220/310.

Tire Pressure Monitor Operation

This vehicle may have a Tire Pressure Monitor System (TPMS). The TPMS is designed to warn the driver when a low tire pressure condition exists. TPMS sensors are mounted onto each tire and wheel assembly, excluding the spare tire and wheel assembly. The TPMS sensors monitor the air pressure in the vehicle's tires and transmit the tire pressure readings to a receiver located in the vehicle.



When a low tire pressure condition is detected, the TPMS illuminates the low tire pressure warning light located on the instrument panel cluster. If the warning light comes on, stop as soon as possible and inflate the tires to the recommended pressure shown on the Tire and Loading Information label. See *Vehicle Load Limits on page 9-12*.

At the same time, a message to check the pressure in a specific tire appears on the Driver Information Center (DIC) display. The low tire pressure warning light and the DIC warning message come on at each ignition cycle until the tires are inflated to the correct inflation pressure. Using the DIC, tire pressure levels can be viewed by the driver. For additional information and details about the DIC operation and displays see *Driver Information Center (DIC) on page 5-24*.

The low tire pressure warning light may come on in cool weather when the vehicle is first started, and then turn off as you start to drive. This could be an early indicator that the air pressure in the tire(s) is getting low and must be inflated to the proper pressure.

A Tire and Loading Information label, attached to your vehicle, shows the size of your vehicle's original equipment tires and the correct inflation pressure for your vehicle's tires when they are cold. See *Vehicle Load Limits on page 9-12*, for an example of the Tire and Loading Information label and its location on your vehicle. Also see *Tire Pressure on page 10-50*.

Information Provided by:
DEALER E-PROCESS

Your vehicle's TPMS can warn you about a low tire pressure condition but it does not replace normal tire maintenance. See *Tire Inspection on page 10-56*, *Tire Rotation on page 10-57* and *Tires on page 10-42*.

Notice: **Tire sealant materials are not all the same. A non-approved tire sealant could damage the Tire Pressure Monitor System (TPMS) sensors. TPMS sensor damage caused by using an incorrect tire sealant is not covered by the vehicle warranty. Always use only the GM approved tire sealant available through your dealer or included in the vehicle.**

Factory-installed Tire Inflator Kits use a GM-approved liquid tire sealant. Using non-approved tire sealants could damage the TPMS sensors. See *Tire Sealant and Compressor Kit on page 10-68* for information regarding the inflator kit materials and instructions.

TPMS Malfunction Light and Message

The TPMS will not function properly if one or more of the TPMS sensors are missing or inoperable. When the system detects a malfunction, the low tire pressure warning light flashes for about one minute and then stays on for the remainder of the ignition cycle. A DIC warning message is also displayed. The malfunction light and DIC warning message come on at each ignition cycle until the problem is corrected. Some of the conditions that can cause the malfunction light and DIC message to come on are:

- One of the road tires has been replaced with the spare tire. The spare tire does not have a TPMS sensor. The malfunction light and DIC message should go off once you re-install the road tire containing the TPMS sensor and the sensor matching process is performed sucessfully. See “TPMS Sensor Matching Process” later in this section.
- The TPMS sensor matching process was started but not completed or not completed successfully after rotating the vehicle's tires. The DIC message and malfunction light should go off once the TPMS sensor matching process is performed successfully. See “TPMS Sensor Matching Process” later in this section.
- One or more TPMS sensors are missing or damaged. The DIC message and the malfunction light should go off when the TPMS sensors are installed and the sensor matching process is performed successfully. See your dealer for service.
- Replacement tires or wheels do not match your vehicle's original equipment tires or wheels. Tires and wheels other than those recommended for your vehicle

Information Provided by: DEALER E-PROCESS

could prevent the TPMS from functioning properly. See *Buying New Tires on page 10-59*.

- Operating electronic devices or being near facilities using radio wave frequencies similar to the TPMS could cause the TPMS sensors to malfunction.

If the TPMS is not functioning it cannot detect or signal a low tire condition. See your dealer for service if the TPMS malfunction light and DIC message come on and stay on.

TPMS Sensor Matching Process

Each TPMS sensor has a unique identification code. Any time you rotate your vehicle's tires or replace one or more of the TPMS sensors, the identification codes need to be matched to the new tire/wheel position. Also, the TPMS sensor matching process should be performed after replacing a spare tire with a road tire containing the TPMS sensor in order for the malfunction light and the DIC message to go off at the next ignition cycle. The sensors are matched to the tire/wheel positions in the following order: driver side front tire, passenger side front tire, passenger side rear tire, and driver side rear tire using a TPMS diagnostic tool. See your dealer for service.

The TPMS sensors can also be matched to each tire/wheel position by increasing or decreasing the tire's air pressure. If increasing the tire's air pressure, do not exceed the maximum inflation pressure indicated on the tire's sidewall.

To decrease air pressure out of a tire you can use the pointed end of the valve cap, a pencil-style air pressure gauge, or a key.

You have two minutes to match the first tire/wheel position, and five minutes overall to match all four tire/wheel positions. If it takes longer than two minutes to match the first tire and wheel, or more than five minutes to match all four tire and wheel positions, the matching process stops and you need to start over.

The TPMS sensor matching process is outlined below:

1. Set the parking brake.
2. Turn the ignition to ON/RUN with the engine off.
3. Use the MENU button to select the Vehicle Information menu in the Driver Information Center (DIC).
4. Use the thumbwheel to scroll to the Tire Pressure menu item screen.
5. Press the SET/CLR button to begin the sensor matching process.

 A message asking if you are sure you want to begin this process should appear.

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6. Press the SET/CLR button again to confirm the selection.

 The horn sounds twice to signal the receiver is in relearn mode and the TIRE LEARNING ACTIVE message displays on the DIC screen.

7. Start with the driver side front tire.

8. Remove the valve cap from the valve cap stem. Activate the TPMS sensor by increasing or decreasing the tire's air pressure for five seconds, or until a horn chirp sounds. The horn chirp, which may take up to 30 seconds to sound, confirms that the sensor identification code has been matched to this tire and wheel position.

9. Proceed to the passenger side front tire, and repeat the procedure in Step 8.

10. Proceed to the passenger side rear tire, and repeat the procedure in Step 8.

11. Proceed to the driver side rear tire, and repeat the procedure in Step 8. The horn sounds two times to indicate the sensor identification code has been matched to the driver side rear tire, and the TPMS sensor matching process is no longer active. The TIRE LEARNING ACTIVE message on the DIC display screen goes off.

12. Turn the ignition to LOCK/OFF.

13. Set all four tires to the recommended air pressure level as indicated on the Tire and Loading Information label.

14. Put the valve caps back on the valve stems.

Tire Inspection

We recommend that you regularly inspect the vehicle's tires, including the spare tire, if the vehicle has one, for signs of wear or damage at least once a month.

Always remove the tires if any of the following statements are true:

- You can see the indicators at three or more places around the tire.
- You can see cord or fabric showing through the tire's rubber.
- The tread or sidewall is cracked, cut, or snagged deep enough to show cord or fabric.

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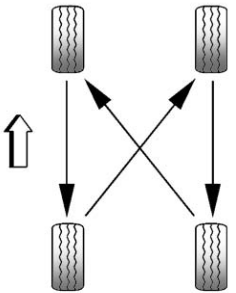
- The tire has a bump, bulge, or split.
- The tire has a puncture, cut, or other damage that cannot be repaired well because of the size or location of the damage.

Tire Rotation

Tires should be rotated every 12 000 km (7,500 miles). See *Scheduled Maintenance on page 11-2*.

The purpose of a regular tire rotation is to achieve a uniform wear for all tires on the vehicle. This will ensure that the vehicle continues to perform most like it did when the tires were new.

Any time you notice unusual wear, rotate the tires as soon as possible and check wheel alignment. Also check for damaged tires or wheels. See*When It Is Time for New Tires on page 10-58* and *Wheel Replacement on page 10-64*.



When rotating the vehicle's tires, always use the correct rotation pattern shown here.

Do not include the compact spare tire in the tire rotation.

After the tires have been rotated, adjust the front and rear inflation pressures as shown on the Tire and Loading Information label. See *Tire Pressure on page 10-50* and *Vehicle Load Limits on page 9-12*.

Reset the Tire Pressure Monitor System. See *Tire Pressure Monitor Operation on page 10-53*.

Information Provided by: DEALER E-PROCESS

Make certain that all wheel nuts are properly tightened. See "Wheel Nut Torque" under *Capacities and Specifications on page 12-2*.

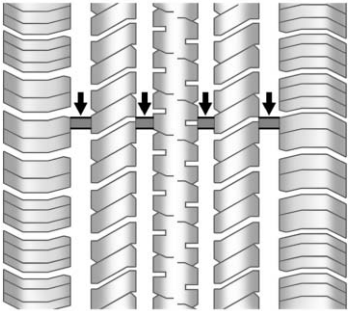
⚠ WARNING

Rust or dirt on a wheel, or on the parts to which it is fastened, can make wheel nuts become loose after time. The wheel could come off and cause an accident. When changing a wheel, remove any rust or dirt from places where the wheel attaches to the vehicle. In an emergency, use a cloth or a paper towel to do this; but be sure to use a scraper or wire brush later, if needed, to get all the rust or dirt off. See *If a Tire Goes Flat on page 10-65*.

Lightly coat the center of the wheel hub with wheel bearing grease after a wheel change or tire rotation to prevent corrosion or rust build-up. Do not get grease on the flat wheel mounting surface or on the wheel nuts or bolts.

When It Is Time for New Tires

Various factors, such as maintenance, temperatures, driving speeds, vehicle loading, and road conditions influence when you need new tires.



One way to tell when it is time for new tires is to check the treadwear indicators, which appear when the tires have only 1.6 mm (1/16 in) or less of tread remaining. See *Tire Inspection on page 10-56* and *Tire Rotation on page 10-57* for additional information.

The rubber in tires age over time. This is also true for the spare tire, if the vehicle has one, even if it is not being used. Multiple conditions affect how fast this aging takes place, including temperatures, loading conditions, and inflation pressure maintenance. Tires will

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typically need to be replaced due to wear before they may need to be replaced due to age. Consult the tire manufacturer for more information on when tires should be replaced.

Vehicle Storage

Tires age when stored normally mounted on a parked vehicle. Park a vehicle that will be stored for at least a month in a cool, dry, clean area away from direct sunlight to slow aging. This area should be free of grease, gasoline, or other substances that can deteriorate rubber.

Parking for an extended period can cause flat spots on the tires that may result in vibrations while driving. When storing a vehicle for at least a month, remove the tires or raise the vehicle to reduce the weight from the tires.

Buying New Tires

GM has developed and matched specific tires for the vehicle. The original equipment tires installed on the vehicle, when it was new, were designed to meet General Motors Tire Performance Criteria Specification (TPC Spec) system rating. If you need replacement tires, GM strongly recommends that you get tires with the same TPC Spec rating. This way, the vehicle will continue to have tires that are designed to give the same performance and vehicle safety, during normal use, as the original tires.

GM's exclusive TPC Spec system considers over a dozen critical specifications that impact the overall performance of the vehicle, including brake system performance, ride and handling, traction control, and tire pressure monitoring performance. GM's TPC Spec number is molded onto the tire's sidewall near the tire size. If the tires have an all-season tread design, the TPC Spec number will be followed by an MS for mud and snow. See *Tire Sidewall Labeling on page 10-44* for additional information.

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GM recommends replacing tires in sets of four. This is because uniform tread depth on all tires will help keep the vehicle performing most like it did when the tires were new. Replacing less than a full set of tires can affect the braking and handling performance of the vehicle. See *Tire Inspection on page 10-56* and *Tire Rotation on page 10-57* for information on proper tire rotation.

⚠ WARNING

Tires could explode during improper service. You or others could be injured or killed if you attempt to mount or dismount a tire. Only your dealer or an authorized tire service center should mount and dismount the tires.

⚠ WARNING

Mixing tires could cause you to lose control while driving. If you mix tires of different sizes, brands, or types (radial and bias-belted tires), the vehicle may not handle properly, and you could have a crash. Using tires of different sizes, brands, or types may also cause damage to the vehicle. Be sure to use the correct size, brand, and type of tires on all wheels. It is all right to drive with the compact spare temporarily, as it was developed for use on the vehicle. See *Compact Spare Tire on page 10-83*.

⚠ WARNING

If you use bias-ply tires on the vehicle, the wheel rim flanges could develop cracks after many miles of driving. A tire and/or wheel could fail suddenly, causing a crash. Use only radial-ply tires with the wheels on the vehicle.

If you must replace the vehicle's tires with those that do not have a TPC Spec number, make sure they are the same size, load range, speed rating, and construction type (radial and bias-belted tires) as the vehicle's original tires.

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Vehicles that have a tire pressure monitoring system could give an inaccurate low-pressure warning if non-TPC Spec rated tires are installed on the vehicle. Non-TPC Spec rated tires may give a low-pressure warning that is higher or lower than the proper warning level you would get with TPC Spec rated tires. See *Tire Pressure Monitor System on page 10-52*.

The vehicle's original equipment tires are listed on the Tire and Loading Information label. See *Vehicle Load Limits on page 9-12* for more information about the Tire and Loading Information label and its location on the vehicle.

Different Size Tires and Wheels

If you add wheels or tires that are a different size than the original equipment wheels and tires, this could affect the way the vehicle performs, including its braking, ride and handling characteristics, stability, and resistance to rollover. Additionally, if the vehicle has electronic systems such as antilock brakes, rollover airbags, traction control, and electronic stability control, the performance of these systems can be affected.

⚠ WARNING

If you add different sized wheels, the vehicle may not provide an acceptable level of performance and safety if tires not recommended for those wheels are selected. You may increase the chance that you will crash and suffer serious injury. Only use GM specific wheel and tire systems developed for the vehicle, and have them properly installed by a GM certified technician.

See *Buying New Tires on page 10-59* and *Accessories and Modifications on page 10-3* for additional information.

Information Provided by: DEALER E-PROCESS

Uniform Tire Quality Grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

The following information relates to the system developed by the United States National Highway Traffic Safety Administration (NHTSA), which grades tires by treadwear, traction, and temperature performance. This applies only to vehicles sold in the United States. The grades are molded on the sidewalls of most passenger car tires. The Uniform Tire Quality Grading (UTQG) system does not apply to deep tread, winter-type snow tires, space-saver, or temporary use spare tires, tires with nominal rim diameters of 10 to 12 inches (25 to 30 cm), or to some limited-production tires.

While the tires available on General Motors passenger cars and light trucks may vary with respect to these grades, they must also conform to federal safety requirements and additional General Motors Tire Performance Criteria (TPC) standards.

All Passenger Car Tires Must Conform to Federal Safety Requirements In Addition To These Grades.

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and a half (1½) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

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Traction – AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance. Warning: The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature – A, B, C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law. Warning: The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

Wheel Alignment and Tire Balance

The tires and wheels on the vehicle were aligned and balanced carefully at the factory to give the longest tire life and best overall performance. Adjustments to wheel alignment and tire balancing will not be necessary on a regular basis. However, if there is unusual tire wear or the vehicle pulls to one side or the other, the alignment should be checked. If the vehicle vibrates when driving on a smooth road, the tires and wheels might need to be rebalanced. See your dealer for proper diagnosis.

Information Provided by: DEALER E-PROCESS

Wheel Replacement

Replace any wheel that is bent, cracked, or badly rusted or corroded. If wheel nuts keep coming loose, the wheel, wheel bolts, and wheel nuts should be replaced. If the wheel leaks air, replace it, except some aluminum wheels, which can sometimes be repaired. See your dealer if any of these conditions exist.

Your dealer will know the kind of wheel you need.

Each new wheel should have the same load-carrying capacity, diameter, width, offset, and be mounted the same way as the one it replaces.

If you need to replace any of the wheels, wheel bolts, wheel nuts, or Tire Pressure Monitor System (TPMS) sensors, replace them only with new GM original equipment parts. This way, you will be sure to have the right wheel, wheel bolts, wheel nuts, and TPMS sensors for the vehicle.

⚠ WARNING

Using the wrong replacement wheels, wheel bolts, or wheel nuts on the vehicle can be dangerous. It could affect the braking and handling of the vehicle, make the tires lose air and make you lose control. You could have a collision in which you or others could be injured. Always use the correct wheel, wheel bolts, and wheel nuts for replacement.

Notice: **The wrong wheel can also cause problems with bearing life, brake cooling, speedometer or odometer calibration, headlamp aim, bumper height, vehicle ground clearance, and tire or tire chain clearance to the body and chassis.**

See *If a Tire Goes Flat on page 10-65* for more information.

Used Replacement Wheels

⚠ WARNING

Putting a used wheel on the vehicle is dangerous. You cannot know how it has been used or how far it has been driven. It could fail suddenly and cause a crash. If you have to replace a wheel, use a new GM original equipment wheel.

Information Provided by: DEALER E-PROCESS

Tire Chains

⚠ WARNING

Do not use tire chains. There is not enough clearance. Tire chains used on a vehicle without the proper amount of clearance can cause damage to the brakes, suspension, or other vehicle parts. The area damaged by the tire chains could cause you to lose control of the vehicle and you or others may be injured in a crash. Use another type of traction device only if its manufacturer recommends it for use on the vehicle and tire size combination and road conditions.

(Continued)

WARNING (Continued)

Follow that manufacturer's instructions. To help avoid damage to the vehicle, drive slowly, re-adjust or remove the device if it is contacting the vehicle, and do not spin the wheels. If you do find traction devices that will fit, install them on the rear tires.

If a Tire Goes Flat

It is unusual for a tire to blowout while you are driving, especially if you maintain your vehicle's tires properly. If air goes out of a tire, it is much more likely to leak out slowly. But if you should ever have a blowout, here are a few tips about what to expect and what to do:

If a front tire fails, the flat tire creates a drag that pulls the vehicle toward that side. Take your foot off the accelerator pedal and grip the steering wheel firmly. Steer to maintain lane position, and then gently brake to a stop, well off the road, if possible.

Information Provided by: DEALER E-PROCESS

A rear blowout, particularly on a curve, acts much like a skid and may require the same correction you would use in a skid. In any rear blowout remove your foot from the accelerator pedal. Get the vehicle under control by steering the way you want the vehicle to go. It may be very bumpy and noisy, but you can still steer. Gently brake to a stop, well off the road, if possible.

⚠ WARNING

Driving on a flat tire will cause permanent damage to the tire. Re-inflating a tire after it has been driven on while severely underinflated or flat may cause a blowout and a serious crash. Never attempt to re-inflate a tire that has been driven on while severely underinflated or flat. Have your dealer or an authorized tire service center repair or replace the flat tire as soon as possible.

⚠ WARNING

Lifting a vehicle and getting under it to do maintenance or repairs is dangerous without the appropriate safety equipment and training. If a jack is provided with the vehicle, it is designed only for changing a flat tire. If it is used for anything else, you or others could be badly injured or killed if the vehicle slips off the jack. If a jack is provided with the vehicle, only use it for changing a flat tire.

If a tire goes flat, avoid further tire and wheel damage by driving slowly to a level place, well off the road, if possible. Turn on the hazard warning flashers. See *Hazard Warning Flashers on page 6-3*.

⚠ WARNING

Changing a tire can be dangerous. The vehicle can slip off the jack and roll over or fall on you or other people. You and they could be badly injured or even killed. Find a level place to change the tire. To help prevent the vehicle from moving:

1. Set the parking brake firmly.
2. Put an automatic transmission shift lever in P (Park), or shift a manual transmission to 1 (First) or R (Reverse).
3. Turn off the engine and do not restart while the vehicle is raised.
4. Do not allow passengers to remain in the vehicle.

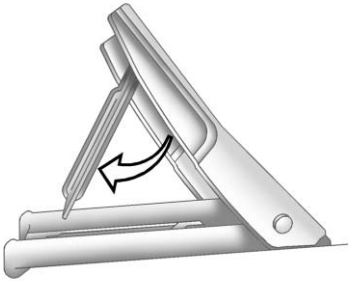
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Information Provided by: DEALER E-PROCESS

WARNING (Continued)

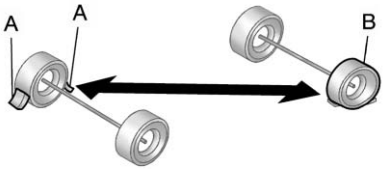
To be certain the vehicle will not move, put blocks at the front and rear of the tire farthest away from the one being changed. That would be the tire on the other side, at the opposite end of the vehicle.

This vehicle may come with a jack, spare tire, and wheel block(s) or a tire sealant and compressor kit. To use the jacking equipment to change a spare tire safely, follow the instructions below. Then see *Tire Changing on page 10-75*. To use the tire sealant and compressor kit, see *Tire Sealant and Compressor Kit on page 10-68*.



To use the wheel blocks, lift the wheel block and lock into place.

When the vehicle has a flat tire (B), use the following example as a guide to assist you in the placement of wheel blocks (A).



A. Wheel Block

B. Flat Tire

The following information explains how to repair or change a tire.

Information Provided by:
DEALER E-PROCESS

Tire Sealant and Compressor Kit

⚠ WARNING

Idling a vehicle in an enclosed area with poor ventilation is dangerous. Engine exhaust may enter the vehicle. Engine exhaust contains Carbon Monoxide (CO) which cannot be seen or smelled. It can cause unconsciousness and even death. Never run the engine in an enclosed area that has no fresh air ventilation. For more information, see *Engine Exhaust on page 9-24*.

⚠ WARNING

Overinflating a tire could cause the tire to rupture and you or others could be injured. Be sure to read and follow the tire sealant and compressor kit instructions and inflate the tire to its recommended pressure. Do not exceed the recommended pressure.

⚠ WARNING

Storing the tire sealant and compressor kit or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store the tire sealant and compressor kit in its original location.

If this vehicle has a tire sealant and compressor kit, there may not be a spare tire, tire changing equipment, and on some vehicles there may not be a place to store a tire.

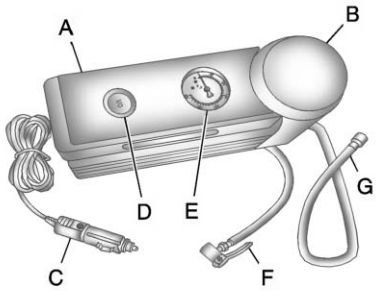
The tire sealant and compressor can be used to temporarily seal punctures up to 6 mm (¼ inch) in the tread area of the tire. It can also be used to inflate an under inflated tire.

If the tire has been separated from the wheel, has damaged sidewalls, or has a large puncture, the tire is too severely damaged for the tire sealant and compressor kit to be effective. See *Roadside Assistance Program on page 13-6*.

Read and follow all of the tire sealant and compressor kit instructions.

Information Provided by: DEALER E-PROCESS

The kit includes:



A. Air Compressor
B. Tire Sealant Canister
C. Power Plug
D. On/Off Button
E. Pressure Gauge
F. Air Only Hose (Black)
G. Sealant/Air Hose (Clear)

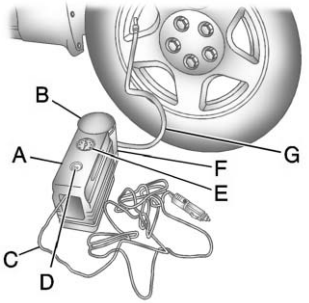
Tire Sealant

Read and follow the safe handling instructions on the label adhered to the sealant canister.

Check the tire sealant expiration date on the sealant canister. The sealant canister should be replaced before its expiration date. Replacement sealant canisters are available at your local dealer. See “Removal and Installation of the Sealant Canister” following.

There is only enough sealant to seal one tire. After usage, the sealant canister and sealant/air hose assembly must be replaced. See “Removal and Installation of the Sealant Canister” following.

Using the Tire Sealant and Compressor Kit to Temporarily Seal and Inflate a Punctured Tire



When using the tire sealant and compressor kit during cold temperatures, warm the kit in a heated environment for five minutes. This will help to inflate the tire faster.

Information Provided by:
DEALER E-PROCESS

If a tire goes flat, avoid further tire and wheel damage by driving slowly to a level place. Turn on the hazard warning flashers. See *Hazard Warning Flashers on page 6-3*.

See *If a Tire Goes Flat on page 10-65* for other important safety warnings.

Do not remove any objects that have penetrated the tire.

1. Remove the tire sealant and compressor kit from its storage location. See *Storing the Tire Sealant and Compressor Kit on page 10-75*.

 Make sure the on/off button (D) is in the off (O) position.
2. Unwrap the sealant/air hose (G) and the power plug (C).
3. Place the kit on the ground.

 Make sure the tire valve stem is positioned close to the ground so the hose will reach it.
4. Remove the valve stem cap from the flat tire by turning it counterclockwise.
5. Attach the sealant/air hose (G) onto the tire valve stem. Turn it clockwise until it is tight.
6. Plug the power plug (C) into the accessory power outlet in the vehicle. Unplug all items from other accessory power outlets. See *Power Outlets on page 5-5*.

 If the vehicle has an accessory power outlet, do not use the cigarette lighter.

 If the vehicle only has a cigarette lighter, use the cigarette lighter.

 Do not pinch the power plug cord in the door or window.
7. Start the vehicle. The vehicle must be running while using the air compressor.
8. Press the on/off (D) button to turn the tire sealant and compressor kit on.

 The compressor will inject sealant and air into the tire.

 The pressure gauge (E) will initially show a high pressure while the compressor pushes the sealant into the tire. Once the sealant is completely dispersed into the tire, the pressure will quickly drop and start to rise again as the tire inflates with air only.
9. Inflate the tire to the recommended inflation pressure using the pressure gauge (E). The recommended inflation pressure can be found on the Tire and Loading Information label. See *Tire Pressure on page 10-50*.

 The pressure gauge (E) may read higher than the actual tire pressure while the compressor is on. Turn the compressor off to get an accurate pressure reading. The compressor may be turned on/off until the correct pressure is reached.

Information Provided by: DEALER E-PROCESS

Notice: **If the recommended pressure cannot be reached after approximately 25 minutes, the vehicle should not be driven farther. The tire is too severely damaged and the tire sealant and compressor kit cannot inflate the tire. Remove the power plug from the accessory power outlet and unscrew the inflating hose from the tire valve. See *Roadside Assistance Program on page 13-6*.**

10. Press the on/off button (D) to turn the tire sealant and compressor kit off.

 The tire is not sealed and will continue to leak air until the vehicle is driven and the sealant is distributed in the tire. Therefore, Steps 11 through 17 must be done immediately after Step 10.

 Be careful while handling the tire sealant and compressor kit as it could be warm after usage.

11. Unplug the power plug (C) from the accessory power outlet in the vehicle.
12. Turn the sealant/air hose (G) counterclockwise to remove it from the tire valve stem.
13. Replace the tire valve stem cap.
14. Replace the sealant/air hose (G), and the power plug (C) back in their original location.



15. If the flat tire was able to inflate to the recommended inflation pressure, remove the maximum speed label from the sealant canister (B) and place it in a highly visible location.

 Do not exceed the speed on this label until the damaged tire is repaired or replaced.

16. Return the equipment to its original storage location in the vehicle.
17. Immediately drive the vehicle 8 km (5 miles) to distribute the sealant in the tire.
18. Stop at a safe location and check the tire pressure. Refer to Steps 1 through 11 under “Using the Tire Sealant and Compressor Kit without Sealant to Inflate a Tire (Not Punctured).”

 If the tire pressure has fallen more than 68 kPa (10 psi) below the recommended inflation pressure, stop driving the vehicle. The tire is too severely damaged and the tire sealant cannot seal the tire. See *Roadside Assistance Program on page 13-6*.

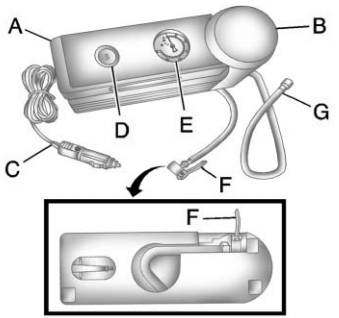
Information Provided by:
DEALER E-PROCESS

If the tire pressure has not dropped more than 68 kPa (10 psi) from the recommended inflation pressure, inflate the tire to the recommended inflation pressure.

19. Wipe off any sealant from the wheel, tire or vehicle.
20. Dispose of the used sealant canister (B) and sealant/air hose (G) assembly at a local dealer or in accordance with local state codes and practices.
21. Replace it with a new canister available from your dealer.
22. After temporarily sealing a tire using the tire sealant and compressor kit, take the vehicle to an authorized dealer within 161 km (100 miles) of driving to have the tire repaired or replaced.

Using the Tire Sealant and Compressor Kit without Sealant to Inflate a Tire (Not Punctured)

To use the air compressor to inflate a tire with air only and not sealant:



If a tire goes flat, avoid further tire and wheel damage by driving slowly to a level place. Turn on the hazard warning flashers. See *Hazard Warning Flashers on page 6-3*.

See *If a Tire Goes Flat on page 10-65* for other important safety warnings.

1. Remove the tire sealant and compressor kit from its storage location. See *Storing the Tire Sealant and Compressor Kit on page 10-75*.
2. Unlock the air only hose (F) from the sealant canister (B) by pulling up on the lever.
3. Pull the air only hose (F) from the sealant canister (B).
4. Remove the power plug (C) from the air compressor (A).
5. Place the kit on the ground.

 Make sure the tire valve stem is positioned close to the ground so the hose will reach it.
6. Remove the tire valve stem cap by turning it counterclockwise.
7. Attach the air only hose (F) onto the tire valve stem and press the lever down to secure it.

Information Provided by:
DEALER E-PROCESS

8. Plug the power plug (C) into the accessory power outlet in the vehicle. Unplug all items from other accessory power outlets. See *Power Outlets on page 5-5*.

 If the vehicle has an accessory power outlet, do not use the cigarette lighter.

 If the vehicle only has a cigarette lighter, use the cigarette lighter.

 Do not pinch the power plug cord in the door or window.

9. Start the vehicle. The vehicle must be running while using the air compressor.

10. Press the on/off (D) button to turn the compressor on.

 The compressor will inflate the tire with air only.

11. Inflate the tire to the recommended inflation pressure using the pressure gauge (E). The recommended inflation pressure can be found on the Tire and Loading Information label. See *Tire Pressure on page 10-50*.

 The pressure gauge (E) may read higher than the actual tire pressure while the compressor is on. Turn the compressor off to get an accurate reading. The compressor may be turned on/off until the correct pressure is reached.

12. Press the on/off button (D) to turn the tire sealant and compressor kit off.

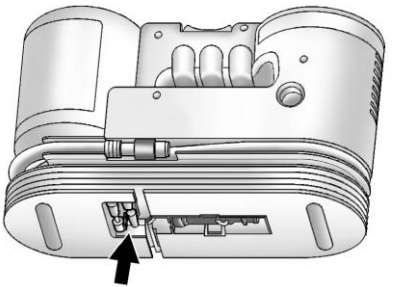
 Be careful while handling the tire sealant and compressor kit as it could be warm after usage.

13. Unplug the power plug (C) from the accessory power outlet in the vehicle.

14. Disconnect the air only hose (F) from the tire valve stem by lifting the lever. Replace the tire valve stem cap.

15. Replace the air only hose (F) and the power plug (C) back in its original location.

16. Place the equipment in the original storage location in the vehicle.

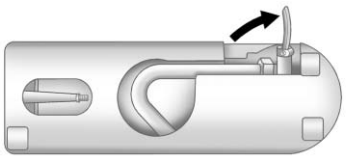


The tire sealant and compressor kit has an accessory adapter located in a compartment on the bottom of its housing that may be used to inflate air mattresses, balls, etc.

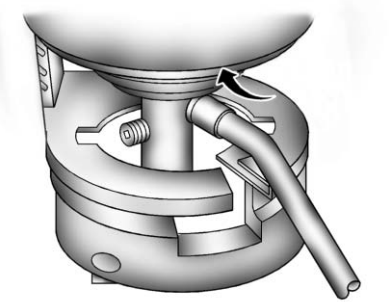
Information Provided by: DEALER E-PROCESS

Removal and Installation of the Sealant Canister

To remove the sealant canister:



1. Unlock the air only hose (F) from the sealant canister (B) by pulling up on the lever.
2. Pull the air only hose (F) from the sealant canister (B).
3. Unwrap the sealant/air hose (G) from the compressor (A).



4. Turn the sealant canister (B) so the inflator filling hose is aligned with the slot in the compressor.
5. Lift the sealant canister (B) from the compressor and replace with a new sealant canister. See your dealer for more information.

To install a new sealant canister:

1. Align the sealant/air hose (G) with the slot in the air compressor.
2. Push the sealant canister (B) down and turn it clockwise.
3. Wrap the sealant/air hose (G) around the air compressor channel to stow it in its original location.
4. Push the air only hose (F) onto the sealant canister inlet and push the lever down.

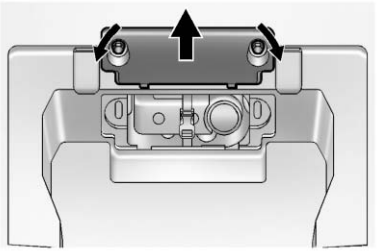
Information Provided by:
DEALER E-PROCESS

Storing the Tire Sealant and Compressor Kit

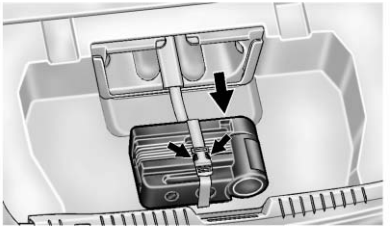
The tire sealant and compressor kit is located in the trunk, under the load floor, behind an access panel.

To remove the kit:

1. Open the trunk. See *Trunk on page 2-8*.



2. Turn the left knob counterclockwise and the right knob clockwise, 90 degrees, at the same time. Then pull the access panel rearward and up to remove it.



3. Pull the inflator kit rearward.

 Squeeze the two tabs of the quick release buckle to remove the tire sealant and compressor kit.

To store the inflator kit, reverse the steps.

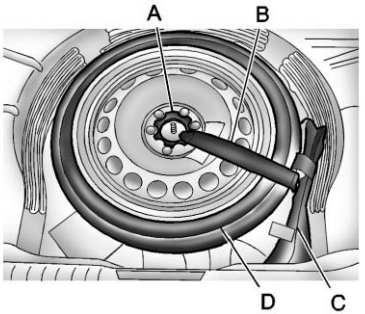
Tire Changing

Removing the Spare Tire and Tools

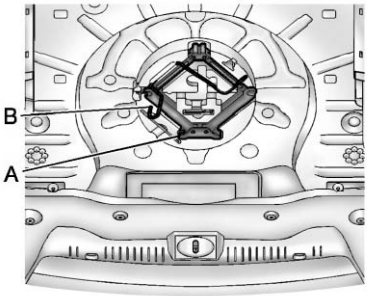
To access the spare tire and tools:

1. Open the trunk. See *Trunk on page 2-8*.
2. Lift the load floor.

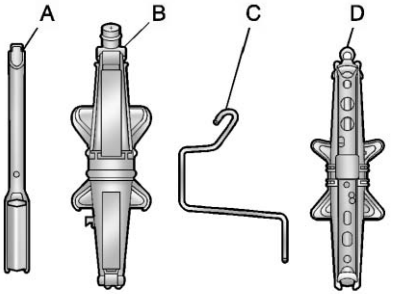
Information Provided by:
DEALER E-PROCESS



3. Turn the retainer nut (A) counterclockwise to remove it. Then remove the tool bag tether (B) from the stow rod , the tool bag containing the wheel wrench and wheel blocks (C), and the spare tire (D).



4. Remove the jack handle extension (B) and jack (A).



This vehicle will have either a coin/pierce jack (D) and a jack handle extension (C) or a hex head jack (B) and a jack lift assist tool (A).

Place the tools next to the tire being changed.

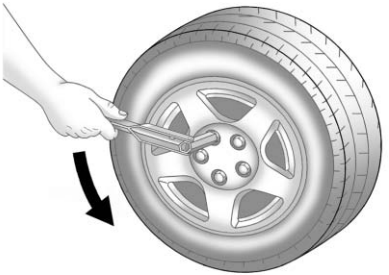
5. Place the spare tire next to the tire being changed.

Information Provided by:
DEALER E-PROCESS

Removing the Flat Tire and Installing the Spare Tire

This vehicle may have aluminum wheels with exposed wheel nuts. Use the wheel wrench to loosen all the wheel nuts. Do not remove them yet.

Or, this vehicle may have steel wheels with plastic covers.



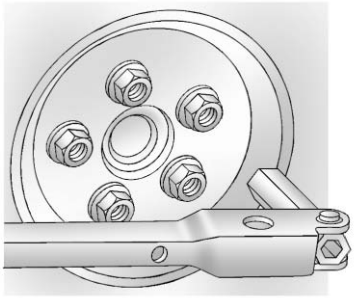
To remove the plastic covers and wheel nut caps, loosen the plastic nut caps with the wheel wrench in a counterclockwise direction.

If needed, finish loosening them with your fingers. The plastic nut caps will not come off.

If needed, use the flat end of the wheel wrench and pry along the edge of the cover until it comes off. The edge of the wheel cover could be sharp, so do not try to remove it with your bare hands. Do not drop the cover or lay it face down, as it could become scratched or damaged. Store the wheel cover in the trunk until the flat tire is repaired or replaced.

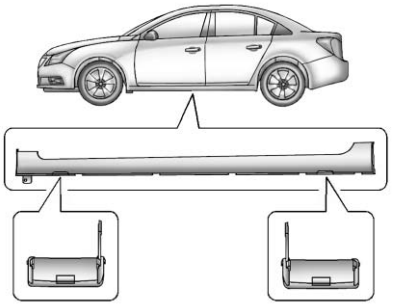
Once you have removed the wheel cover, use the following procedure to remove the flat tire and install the spare tire.

1. Do a safety check before proceeding. See *If a Tire Goes Flat on page 10-65* for more information.



2. Turn the wheel wrench counterclockwise once on each wheel nut to loosen it. Do not remove them yet.
3. Place the jack near the flat tire.
4. Place the wheel blocks on both sides of the tire at the opposite corner of the tire being changed. See *If a Tire Goes Flat on page 10-65* for proper wheel block placement.

Information Provided by: DEALER E-PROCESS



5. If this vehicle is the RS model, locate the front or rear jack cover on the rocker molding near the tire being changed.

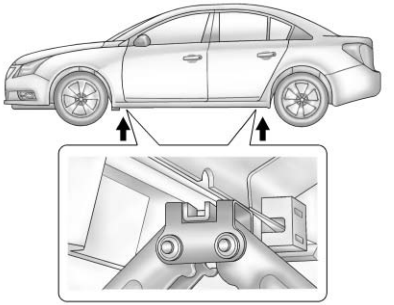
 Place your hand behind the edge of the cover on the rocker molding. Pull down and out to remove the cover.

 The cover will remain attached to the molding by a tether.

6. Place the jack under the vehicle.
7. If you have a coin/pierce jack, attach the jack handle extension to the jack by sliding the hook through the end of the jack.

 If you have a hex-head jack, attach the jack lift-assist tool by placing the hex of the jack lift-assist tool over the hex head of the jack.

Notice: **Make sure that the jack lift head is in the correct position or you may damage your vehicle. The repairs would not be covered by your warranty.**



8. Position the jack lift head at the jack location nearest the flat tire. The location is indicated by a notch in the flange. The jack must not be used in any other position.

⚠ WARNING

Getting under a vehicle when it is jacked up is dangerous. If the vehicle slips off the jack, you could be badly injured or killed. Never get under a vehicle when it is supported only by a jack.

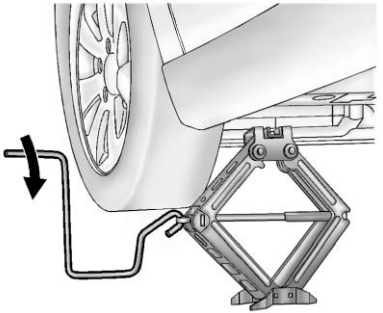
Information Provided by: DEALER E-PROCESS

⚠ WARNING

Raising the vehicle with the jack improperly positioned can damage the vehicle and even make the vehicle fall. To help avoid personal injury and vehicle damage, be sure to fit the jack lift head into the proper location before raising the vehicle.

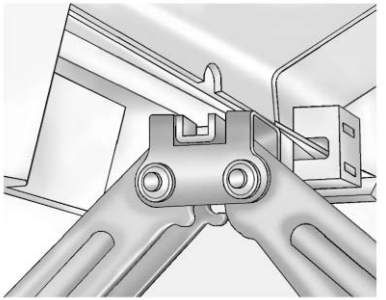
⚠ WARNING

Lifting a vehicle and getting under it to do maintenance or repairs is dangerous without the appropriate safety equipment and training. If a jack is provided with the vehicle, it is designed only for changing a flat tire. If it is used for anything else, you or others could be badly injured or killed if the vehicle slips off the jack. If a jack is provided with the vehicle, only use it for changing a flat tire.



Coin Pierce Jack Shown, Hex Head Jack Similar

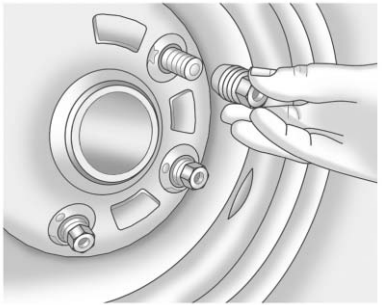
9. Raise the jack by turning the handle clockwise until it comes in contact with the notch in the flange.



Make sure the jack lift head notch is placed in the flange notch.

Raise the vehicle far enough off the ground so there is enough room for the road tire to clear the ground.

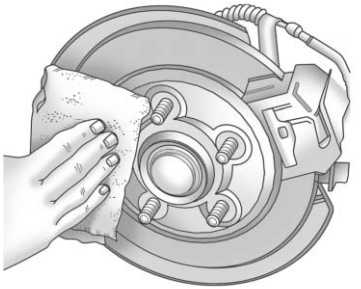
Information Provided by: DEALER E-PROCESS



10. Remove all of the wheel nuts.
11. Remove the flat tire.

⚠ WARNING

Rust or dirt on a wheel, or on the parts to which it is fastened, can make wheel nuts become loose after time. The wheel could come off and cause an accident. When changing a wheel, remove any rust or dirt from places where the wheel attaches to the vehicle. In an emergency, use a cloth or a paper towel to do this; but be sure to use a scraper or wire brush later, if needed, to get all the rust or dirt off. See *If a Tire Goes Flat on page 10-65*.



12. Remove any rust or dirt from the wheel bolts, mounting surfaces, and spare wheel.
13. Place the compact spare tire on the wheel-mounting surface.

⚠ WARNING

Never use oil or grease on bolts or nuts because the nuts might come loose. The vehicle's wheel could fall off, causing a crash.

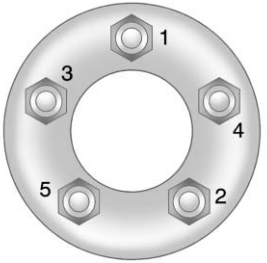
Information Provided by: DEALER E-PROCESS

14. Reinstall the wheel nuts. Tighten each nut by hand until the wheel is held against the hub.
15. Lower the vehicle by turning the jack handle counterclockwise.

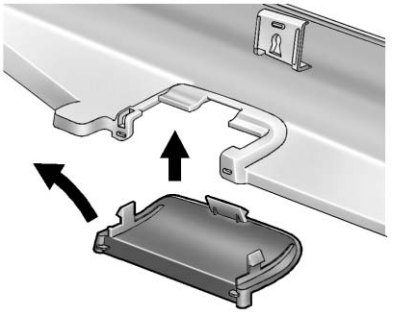
⚠ WARNING

Wheel nuts that are improperly or incorrectly tightened can cause the wheels to become loose or come off. The wheel nuts should be tightened with a torque wrench to the proper torque specification after replacing. Follow the torque specification supplied by the aftermarket manufacturer when using accessory locking wheel nuts. See *Capacities and Specifications on page 12-2* for original equipment wheel nut torque specifications.

Notice: **Improperly tightened wheel nuts can lead to brake pulsation and rotor damage. To avoid expensive brake repairs, evenly tighten the wheel nuts in the proper sequence and to the proper torque specification. See *Capacities and Specifications on page 12-2* for the wheel nut torque specification.**



16. Tighten the wheel nuts firmly in a crisscross sequence, as shown.
17. Lower the jack all the way and remove the jack from under the vehicle.
18. Tighten the wheel nuts firmly with the wheel wrench.



Front Jack Cover Shown, Rear Jack Cover Similar

19. If this vehicle is the RS model, snap the jack cover back into place.
20. Remove the wheel blocks and return them to their proper storage location.

Information Provided by: DEALER E-PROCESS

When reinstalling the wheel cover or center cap on the full-size tire, tighten all five plastic caps hand snug with the aid of the wheel wrench and tighten them with the wheel wrench an additional one-quarter of a turn.

Notice: **Wheel covers will not fit on the vehicle's compact spare. If you try to put a wheel cover on the compact spare, the cover or the spare could be damaged.**

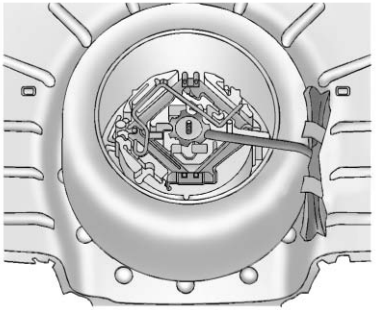
Storing a Flat or Spare Tire and Tools

⚠ WARNING

Storing a jack, a tire, or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store all these in the proper place.

Storing the Flat Tire and Tools

1. Replace the wheel wrench and wheel blocks in the tool bag.
2. Remove the foam container from the rear storage compartment.



3. Place the flat tire in the storage compartment with the valve stem down.
4. Place the jack and jack handle extension in the foam container.
5. Place the foam container inside the flat tire. Align the hole with the stow rod.
6. Place the tool bag tether over the stow rod.
7. Turn the retainer nut clockwise until tight.
8. Replace the load floor.

 The load floor may not lay flat.

The compact spare is for temporary use only. Replace the compact spare tire with a full-size tire as soon as you can.

Storing the Compact Spare Tire and Tools

Reverse the instructions for removing the spare tire and tools to store the compact spare tire.

Information Provided by: DEALER E-PROCESS

Compact Spare Tire

⚠ WARNING

Driving with more than one compact spare tire at a time could result in loss of braking and handling. This could lead to a crash and you or others could be injured. Use only one compact spare tire at a time.

If this vehicle has a compact spare tire, it was fully inflated when the vehicle was new; however, it can lose air after a time. Check the inflation pressure regularly. It should be 420 kPa (60 psi).

After installing the compact spare on the vehicle, stop as soon as possible and make sure the spare tire is correctly inflated. The compact spare is made to perform well at speeds up to 105 km/h (65 mph) for distances up to 5 000 km (3,000 miles), so you can finish your trip and have the full-size tire repaired or replaced at your convenience. Of course, it is best to replace the spare with a full-size tire as soon as possible. The spare tire will last longer and be in good shape in case it is needed again.

Notice: **When the compact spare is installed, do not take the vehicle through an automatic car wash with guide rails. The compact spare can get caught on the rails which can damage the tire, wheel and other parts of the vehicle.**

Do not use the compact spare on other vehicles.

Do not mix the compact spare tire or wheel with other wheels or tires. They will not fit. Keep the spare tire and its wheel together.

Notice: **Tire chains will not fit the compact spare. Using them can damage the vehicle and can damage the chains too. Do not use tire chains on the compact spare.**

Information Provided by: DEALER E-PROCESS

Jump Starting

For more information about the vehicle battery, see *Battery on page 10-26*.

If the battery has run down, try to use another vehicle and some jumper cables to start your vehicle. Be sure to use the following steps to do it safely.

⚠ WARNING

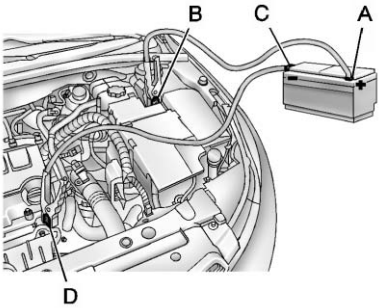
Batteries can hurt you. They can be dangerous because:

- They contain acid that can burn you.
- They contain gas that can explode or ignite.
- They contain enough electricity to burn you.

If you do not follow these steps exactly, some or all of these things can hurt you.

Notice: **Ignoring these steps could result in costly damage to the vehicle that would not be covered by the warranty.**

Trying to start the vehicle by pushing or pulling it will not work, and it could damage the vehicle.



The jump start positive post (B) is located in the engine compartment on the driver side of the vehicle.

The jump start negative grounding point (D) is the engine block or an engine mounting bolt. Connect to a spot as far away from the discharged battery as possible.

These locations are used instead of a direct connection to the battery.

The positive jump start connection is under a trim cover. Open the cover door to expose the terminal.

1. Check the other vehicle. It must have a 12-volt battery with a negative ground system.

Notice: **Only use a vehicle that has a 12-volt system with a negative ground for jump starting. If the other vehicle does not have a 12-volt system with a negative ground, both vehicles can be damaged.**

2. Position the two vehicles so that they are not touching.

Information Provided by: DEALER E-PROCESS

3. Set the parking brake firmly and put the shift lever in P (Park) with an automatic transmission, or neutral with a manual transmission. See *Shifting Into Park (Automatic Transmission) on page 9-22* with an automatic transmission, or *Parking on page 9-24* with a manual transmission.

Notice: **If the radio or other accessories are left on during the jump starting procedure, they could be damaged. The repairs would not be covered by the warranty. Always turn off the radio and other accessories when jump starting the vehicle.**

4. Turn the ignition to LOCK/OFF. Turn off all lights and accessories in both vehicles, except the hazard warning flashers if needed.

⚠ WARNING

An electric fan can start up even when the engine is not running and can injure you. Keep hands, clothing and tools away from any underhood electric fan.

⚠ WARNING

Using a match near a battery can cause battery gas to explode. People have been hurt doing this, and some have been blinded. Use a flashlight if you need more light.

Be sure the battery has enough water. You do not need to add water to the battery installed in your new vehicle. But if a battery has filler caps, be sure the right amount of fluid is there. If it is low,

(Continued)

WARNING (Continued)

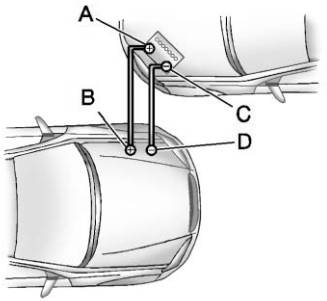
add water to take care of that first. If you don't, explosive gas could be present.

Battery fluid contains acid that can burn you. Do not get it on you. If you accidentally get it in your eyes or on your skin, flush the place with water and get medical help immediately.

⚠ WARNING

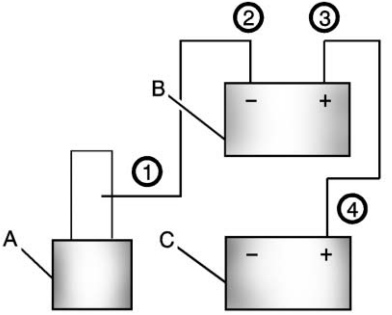
Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engine is running.

Information Provided by: DEALER E-PROCESS



5. Connect one end of the red positive (+) cable to the jump start positive (+) post (B).
6. Connect the other end of the red positive (+) cable to the positive (+) terminal of the good battery (A).
7. Connect one end of the black negative (–) cable to the negative (–) terminal of the good battery (C).
8. Connect the other end of the black negative (–) cable to the negative (–) grounding point (D).
9. Start the engine in the vehicle with the good battery and run the engine at idle speed for at least four minutes.
10. Try to start the vehicle that had the dead battery. If it will not start after a few tries, it probably needs service.

Notice: **If the jumper cables are connected or removed in the wrong order, electrical shorting may occur and damage the vehicle. The repairs would not be covered by the vehicle warranty. Always connect and remove the jumper cables in the correct order, making sure that the cables do not touch each other or other metal.**



Jumper Cable Removal

A. Heavy, Unpainted Metal Engine Part or Remote Negative (–) Terminal
B. Good Battery or Remote Positive (+) and Remote Negative (–) Terminals
C. Dead Battery or Remote Positive (+) Terminal

Information Provided by:
DEALER E-PROCESS

To disconnect the jumper cables from both vehicles:

1. Disconnect the black negative (−) cable from the vehicle that had the dead battery.
2. Disconnect the black negative (−) cable from the vehicle with the good battery.
3. Disconnect the red positive (+) cable from the vehicle with the good battery.
4. Disconnect the red positive (+) cable from the other vehicle.
5. Return the covers over the positive (+) and negative (–) terminals to their original positions.

Towing

Towing the Vehicle

Notice: **To avoid damage, the disabled vehicle should be towed with all four wheels off the ground. Care must be taken with vehicles that have low ground clearance and/or special equipment. Always flatbed on a car carrier.**

Consult your dealer or a professional towing service if the disabled vehicle needs to be towed. See *Roadside Assistance Program on page 13-6*.

To tow the vehicle behind another vehicle such as behind a motorhome, for recreational purposes, see Recreational Vehicle Towing following.

Recreational Vehicle Towing

Recreational vehicle towing refers to towing the vehicle behind another vehicle – such as behind a motor home. The two most common types of recreational vehicle towing are known as dinghy towing and dolly towing. Dinghy towing is towing the vehicle with all four wheels on the ground. Dolly towing is towing the vehicle with two wheels on the ground and two wheels up on a device known as a dolly.

Here are some important things to consider before recreational vehicle towing:

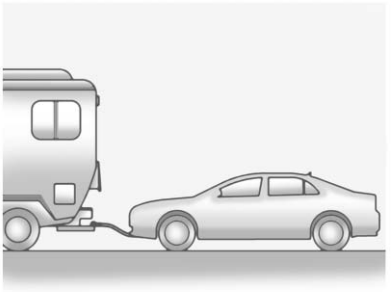
- The towing capacity of the towing vehicle. Be sure to read the tow vehicle manufacturer's recommendations.
- How far will the vehicle be towed. Some vehicles have restrictions on how far and how long they can tow.

Information Provided by: DEALER E-PROCESS

- Does the vehicle have the proper towing equipment. See your dealer or trailering professional for additional advice and equipment recommendations.
- Is the vehicle ready to be towed. Just as preparing the vehicle for a long trip, make sure the vehicle is prepared to be towed.

Dinghy Towing

When dinghy towing a vehicle with an automatic transmission, the vehicle should be run at the beginning of each day and at each RV fuel stop for about five minutes. This will ensure proper lubrication of transmission components.



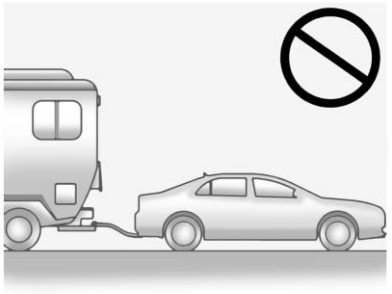
To dinghy tow the vehicle from the front with all four wheels on the ground:

1. Position the vehicle to tow and then secure it to the towing vehicle.
2. Shift the automatic transmission to P (Park) or a manual transmission into first gear and turn the ignition to LOCK/OFF.
3. Set the parking brake.
4. To prevent the battery from draining while the vehicle is being towed, remove the following fuse from the instrument panel fuse block: (IGN SENSOR). See *Instrument Panel Fuse Block on page 10-41* for more information.
5. Turn the ignition to ON/RUN.
6. Shift the automatic transmission to N (Neutral) or a manual transmission to neutral.
7. Turn the ignition to ACC/ ACCESSORY.
8. Release the parking brake.

Remember to reinstall the IGN SENSOR fuse once the destination has been reached.

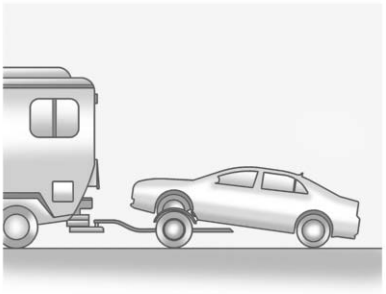
Notice: **If 105 km/h (65 mph) is exceeded while towing the vehicle, it could be damaged. Never exceed 105 km/h (65 mph) while towing the vehicle.**

Information Provided by: DEALER E-PROCESS



Notice: **Towing the vehicle from the rear could damage it. Also, repairs would not be covered by the vehicle warranty. Never have the vehicle towed from the rear.**

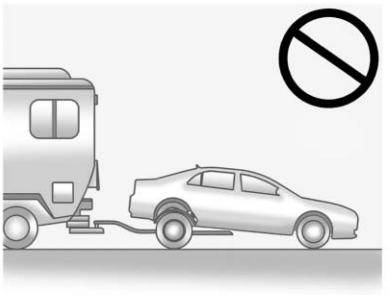
Dolly Towing



Tow the vehicle with the two rear wheels on the ground and the front wheels on a dolly:

To tow the vehicle with two wheels on the ground and a dolly:

1. Put the front wheels on a dolly.
2. Shift the automatic transmission into P (Park) or a manual transmission into first gear.
3. Set the parking brake.
4. Clamp the steering wheel in a straight-ahead position with a clamping device designed for towing.
5. Remove the key from the ignition.
6. Secure the vehicle to the dolly.
7. Release the parking brake.



Notice: **Towing the vehicle from the rear could damage it. Also, repairs would not be covered by the vehicle warranty. Never have the vehicle towed from the rear.**

Information Provided by: DEALER E-PROCESS

Appearance Care

Exterior Care

Cleaning Exterior Lamps/ Lenses

Use only lukewarm or cold water, a soft cloth, and a car washing soap to clean exterior lamps and lenses. Follow instructions under “Washing the Vehicle” later in this section.

Finish Care

Occasional waxing or mild polishing of the vehicle by hand may be necessary to remove residue from the paint finish. Approved cleaning products can be obtained from your dealer.

If the vehicle has a basecoat/ clearcoat paint finish, the clearcoat gives more depth and gloss to the colored basecoat. Always use waxes and polishes that are non-abrasive and made for a basecoat/clearcoat paint finish.

Notice: **Machine compounding or aggressive polishing on a basecoat/clearcoat paint finish may damage it. Use only non-abrasive waxes and polishes that are made for a basecoat/ clearcoat paint finish on the vehicle.**

Foreign materials such as calcium chloride and other salts, ice melting agents, road oil and tar, tree sap, bird droppings, chemicals from industrial chimneys, etc., can damage the vehicle's finish if they remain on painted surfaces. Wash the vehicle as soon as possible. If necessary, use non-abrasive cleaners that are marked safe for painted surfaces to remove foreign matter.

Exterior painted surfaces are subject to aging, weather, and chemical fallout that can take their toll over a period of years. To keep the paint finish looking new, keep the vehicle garaged or covered whenever possible.

Information Provided by: DEALER E-PROCESS

Protecting Exterior Bright Metal Parts

Bright metal parts should be cleaned regularly to keep their luster. Wash with water or use chrome polish on chrome or stainless steel trim, if necessary.

Use special care with aluminum trim. To avoid damaging protective trim, never use auto or chrome polish, steam, or caustic soap to clean aluminum. A coating of wax, rubbed to high polish, is recommended for all bright metal parts.

Washing the Vehicle

To preserve the vehicle's finish, keep it clean by washing it often.

Do not wash the vehicle in direct sunlight and use a car washing soap.

Notice: **Certain cleaners contain chemicals that can damage the emblems or nameplates on the vehicle. Check the cleaning product label. If it states that it**

should not be used on plastic parts, do not use it on the vehicle or damage may occur and it would not be covered by the warranty.

Do not use cleaning agents that are petroleum based or that contain acid or abrasives, as they can damage the paint, metal, or plastic on the vehicle. Approved cleaning products can be obtained from your dealer. Follow all manufacturer directions regarding correct product usage, necessary safety precautions, and appropriate disposal of any vehicle care product.

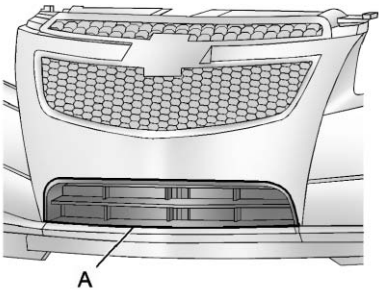
Rinse the vehicle well, before washing and after, to remove all cleaning agents completely. If they are allowed to dry on the surface, they could stain.

Dry the finish with a soft, clean chamois or an all-cotton towel to avoid surface scratches and water spotting.

High pressure car washes could cause water to enter the vehicle. Avoid using high pressure washes closer than 30 cm (12 in) to the surface of the vehicle. Use of power washers exceeding 8,274 kPa (1,200 psi) can result in damage or removal of paint and decals.

Notice: **Conveyor systems on some automatic car washes could damage the vehicle. There may not be enough clearance for the undercarriage. Check with the car wash manager before using the automatic car wash.**

Shutter System Cleaning



A. Shutter System

The vehicle may have a shutter system designed to help increase fuel economy. Keep the shutter system clean for proper operation.

Information Provided by: DEALER E-PROCESS

Weatherstrips

Silicone grease on weatherstrips will make them last longer, seal better, and not stick or squeak. Apply silicone grease with a clean cloth. During very cold, damp weather frequent application may be required. See *Recommended Fluids and Lubricants on page 11-6*.

Wheels and Trim — Aluminum or Chrome

The vehicle may have either aluminum or chrome-plated wheels.

Keep the wheels clean using a soft, clean cloth with mild soap and water. Rinse with clean water. After rinsing thoroughly, dry with a soft, clean towel. A wax may then be applied.

Notice: **Chrome wheels and other chrome trim may be damaged if the vehicle is not washed after driving on roads that have been sprayed with magnesium, calcium or sodium chloride. These chlorides are used on roads for conditions such as ice and dust. Always wash the vehicle's chrome with soap and water after exposure.**

Notice: **Using strong soaps, chemicals, abrasive polishes, cleaners, brushes, or cleaners that contain acid on aluminum or chrome-plated wheels, could damage the surface of the wheel(s). The repairs would not be covered by the vehicle warranty. Use only approved cleaners on aluminum or chrome-plated wheels.**

The surface of these wheels is similar to the painted surface of the vehicle. Do not use strong soaps, chemicals, abrasive polishes, abrasive cleaners, cleaners with acid, or abrasive cleaning brushes on them because the surface could be damaged. Do not use chrome polish on aluminum wheels.

Notice: **Using chrome polish on aluminum wheels could damage the wheels. The repairs would not be covered by the vehicle warranty. Use chrome polish on chrome wheels only.**

Use chrome polish only on chrome-plated wheels, but avoid any painted surface of the wheel, and buff off immediately after application.

Notice: **Driving the vehicle through an automatic car wash that has silicone carbide tire cleaning brushes, could damage the aluminum or chrome-plated wheels. The repairs would not be covered by the vehicle warranty. Never drive a vehicle that has aluminum or chrome-plated wheels through an automatic car wash that uses silicone carbide tire cleaning brushes.**

Information Provided by: DEALER E-PROCESS

Windshield and Wiper Blades

Clean the outside of the windshield with glass cleaner.

Clean the rubber blades using a lint-free cloth or paper towel soaked with windshield washer fluid or a mild detergent. Wash the windshield thoroughly when cleaning the blades. Bugs, road grime, sap, and a buildup of vehicle wash/wax treatments may cause wiper streaking. Replace the wiper blades if they are worn or damaged.

Wipers can be damaged by:

- Extreme dusty conditions
- Sand and salt
- Heat and sun
- Snow and ice, without proper removal

Tires

Use a stiff brush with tire cleaner to clean the tires.

Notice: **Using petroleum-based tire dressing products on the vehicle may damage the paint finish and/or tires. When applying a tire dressing, always wipe off any overspray from all painted surfaces on the vehicle.**

Sheet Metal Damage

If the vehicle is damaged and requires sheet metal repair or replacement, make sure the body repair shop applies anti-corrosion material to parts repaired or replaced to restore corrosion protection.

Original manufacturer replacement parts will provide the corrosion protection while maintaining the vehicle warranty.

Finish Damage

Any stone chips, fractures, or deep scratches in the finish should be repaired right away. Bare metal will corrode quickly and may develop into major repair expense.

Minor chips and scratches can be repaired with touch-up materials available from your dealer. Larger areas of finish damage can be corrected in your dealer's body and paint shop.

Underbody Maintenance

Chemicals used for ice and snow removal and dust control can collect on the underbody. If these are not removed, corrosion and rust can develop on the underbody parts such as fuel lines, frame, floor pan, and exhaust system even though they have corrosion protection.

At least every spring, flush these materials from the underbody with plain water. Clean any areas where mud and debris can collect. Dirt packed in close areas of the frame should be loosened before being flushed. Your dealer or an underbody car washing system can do this.

Information Provided by: DEALER E-PROCESS

Chemical Paint Spotting

Some weather and atmospheric conditions can create a chemical fallout. Airborne pollutants can fall upon and attack painted surfaces on the vehicle. This damage can take two forms: blotchy, ring-shaped discolorations, and small, irregular dark spots etched into the paint surface.

Interior Care

The vehicles interior will continue to look its best if it is cleaned often. Dust and dirt can accumulate on the upholstery and cause damage to the carpet, fabric, leather, and plastic surfaces. Stains should be removed quickly as extreme heat could cause them to set rapidly.

Lighter colored interiors may require more frequent cleaning. Newspapers and garments that can transfer color to home furnishings can also transfer color to the vehicles interior.

Remove dust from small buttons and knobs with a small brush with soft bristles.

Your dealer has products for cleaning the vehicles interior. When cleaning the vehicles interior, only use cleaners specifically designed for the surfaces that are being cleaned. Permanent damage can result from using cleaners on surfaces for which they were not intended. Apply the cleaner directly to the cleaning cloth to prevent over-spray. Remove any accidental over-spray from other surfaces immediately.

Notice: **Using abrasive cleaners when cleaning glass surfaces on the vehicle, could scratch the glass and/or cause damage to the rear window defogger. When cleaning the glass on the vehicle, use only a soft cloth and glass cleaner.**

Cleaners can contain solvents that can become concentrated in the vehicles interior. Before using cleaners, read and adhere to all safety instructions on the label. While cleaning the vehicles interior, maintain adequate ventilation by opening the vehicles doors and windows.

Do not clean the interior using the following cleaners or techniques:

- Never use a knife or any other sharp object to remove a soil from any interior surface.
- Never use a stiff brush. It can cause damage.
- Never apply heavy pressure or rub aggressively with a cleaning cloth. Use of heavy pressure can damage the interior and does not improve the effectiveness of soil removal.

Information Provided by:
DEALER E-PROCESS

- Avoid laundry detergents or dishwashing soaps with degreasers. Using too much soap will leave a residue that leaves streaks and attracts dirt. For liquid cleaners, about 20 drops per 3.78 L (1 gal) of water is a good guide. Use only mild, neutral-pH soaps.
- Do not heavily saturate the upholstery while cleaning.
- Cleaners that contain solvents can damage the vehicles interior.

Fabric/Carpet

Use a vacuum cleaner with a soft brush attachment to remove dust and loose dirt. A canister vacuum with rotating brushes in the nozzle may only be used on floor carpet and carpeted floor mats. For soils, always try to remove them first with plain water or club soda. Before cleaning, gently remove as much of the soil as possible using one of the following techniques:

- For liquids: gently blot the remaining soil with a paper towel. Allow the soil to absorb into the paper towel until no more can be removed.
- For solid dry soils: remove as much as possible and then vacuum.

To clean:

1. Saturate a lint-free, clean white cloth with water or club soda.
2. Remove excess moisture.
3. Start on the outside edge of the soil and gently rub toward the center. Continue cleaning, using a clean area of the cloth each time it becomes soiled.
4. Continue to gently rub the soiled area.
5. If the soil is not completely removed, use a mild soap solution and repeat the cleaning process with plain water.

If any of the soil remains, a commercial fabric cleaner or spot lifter may be necessary. Test a small hidden area for colorfastness before using a commercial upholstery cleaner or spot lifter. If the locally cleaned area gives any impression that a ring formation may result, clean the entire surface.

A paper towel can be used to blot excess moisture from the fabric or carpet after the cleaning process.

Information Provided by: DEALER E-PROCESS

Leather

Leather, and lighter colored leather in particular, will need more frequent cleaning to prevent the buildup of dust, dirt, and colors transferred from other items so that these do not become permanent stains.

To remove dust, a soft cloth dampened with water can be used. If a more thorough cleaning is necessary, a soft cloth dampened with a mild soap solution can be used. Your dealer has a GM approved leather cleaner available that provides superior cleaning performance when used regularly on finished automotive leathers. Allow the leather to dry naturally. Do not use heat, steam, spot lifters or spot removers, or shoe polish on leather. Many commercial leather cleaners and coatings that are sold to preserve and protect leather may permanently change the appearance and feel of the leather and are not recommended. Do not use silicone or wax-based products, or those containing organic solvents to clean the vehicles interior because they can alter the appearance by increasing the gloss in a non-uniform manner.

Instrument Panel, Vinyl, and Other Plastic Surfaces

To remove dust, a soft cloth dampened with water can be used. If a more thorough cleaning is necessary, a clean soft cloth dampened with a mild soap solution can be used to gently remove dust and dirt. Never use spot lifters or removers on plastic surfaces. Many commercial cleaners and coatings that are sold to preserve and protect soft plastic surfaces may permanently change the appearance and feel of the interior and are not recommended. Do not use silicone or wax-based products, or those containing organic solvents to clean the vehicles interior because they can alter the appearance by increasing the gloss in a non-uniform manner.

Some commercial products may increase gloss on the instrument panel. The increase in gloss may cause annoying reflections in the windshield and even make it difficult to see through the windshield under certain conditions.

Care of Safety Belts

Keep belts clean and dry.

⚠ WARNING

Do not bleach or dye safety belts. It may severely weaken them. In a crash, they might not be able to provide adequate protection. Clean safety belts only with mild soap and lukewarm water.

Information Provided by: DEALER E-PROCESS

Floor Mats

⚠ WARNING

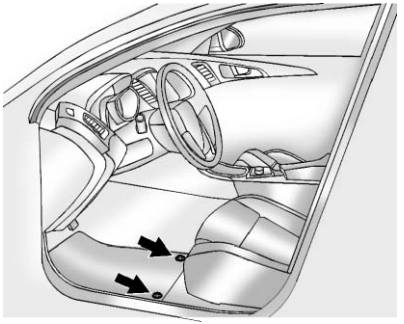
If a floor mat is the wrong size or is not properly installed, it can interfere with the accelerator pedal and/or brake pedal. Interference with the pedals can cause unintended acceleration and/or increased stopping distance which can cause a crash and injury. Make sure the floor mat does not interfere with the accelerator or brake pedal.

Use the following guidelines for proper floor mat usage.

- The original equipment floor mats were designed for your vehicle. If the floor mats need replacing, it is recommended that GM certified floor mats be purchased. Non-GM floor mats may not fit properly and may interfere with the accelerator or brake pedal. Always check that the floor mats do not interfere with the pedals.
- Use the floor mat with the correct side up. Do not turn it over.
- Do not place anything on top of the driver side floor mat.
- Use only a single floor mat on the driver side.
- Do not place one floor mat on top of another.

Removing and Replacing the Floor Mats

Pull up on the rear of the floor mat to unlock each retainer and remove.



Reinstall by lining up the floor mat retainer openings over the carpet retainers and snap into position.

Make sure the floor mat is properly secured in place.

Verify the floor mat does not interfere with the accelerator or the brake pedal.

Information Provided by: DEALER E-PROCESS

✍ NOTES

Information Provided by
DEALER E-PROCESS

Service and Maintenance

General Information
General Information 11-1

Scheduled Maintenance
Scheduled Maintenance 11-2

Recommended Fluids, Lubricants, and Parts
Recommended Fluids and Lubricants 11-6
Maintenance Replacement Parts 11-8

Maintenance Records
Maintenance Records 11-9

General Information

Notice: **Maintenance intervals, checks, inspections, recommended fluids, and lubricants are necessary to keep this vehicle in good working condition. Damage caused by failure to follow scheduled maintenance might not be covered by the vehicle warranty.**

As the vehicle owner, you are responsible for the scheduled maintenance in this section. We recommend having your dealer perform these services. Proper vehicle maintenance helps to keep the vehicle in good working condition, improves fuel economy, and reduces vehicle emissions for better air quality.

Because of all the different ways people use vehicles, maintenance needs vary. The vehicle might need more frequent checks and services. Please read the information under Scheduled Maintenance. To keep the vehicle in good condition, see your dealer.

The maintenance schedule is for vehicles that:

- Carry passengers and cargo within recommended limits on the Tire and Loading Information label. See *Vehicle Load Limits on page 9-12*.
- Are driven on reasonable road surfaces within legal driving limits.
- Use the recommended fuel. See *Recommended Fuel on page 9-40*.

Information Provided by: DEALER E-PROCESS

⚠ WARNING

Performing maintenance work can be dangerous. Some jobs can cause serious injury. Perform maintenance work only if you have the required know-how and the proper tools and equipment. If in doubt, see your dealer to have a qualified technician do the work. See *Doing Your Own Service Work on page 10-4*.

At your dealer, you can be certain that you will receive the highest level of service available. Your dealer has specially trained service technicians, uses genuine replacement parts, as well as, up-to-date tools and equipment to ensure fast and accurate diagnostics.

The proper replacement parts, fluids, and lubricants to use are listed in *Recommended Fluids and Lubricants on page 11-6* and *Maintenance Replacement Parts on page 11-8*. We recommend the use of genuine parts from your dealer.

Rotation of New Tires

To maintain ride, handling, and performance of the vehicle, it is important that the first rotation service for new tires be performed. Tires should be rotated every 12 000 km/7,500 miles. See *Tire Rotation on page 10-57*.

Scheduled Maintenance

When the Change Engine Oil Soon Message Displays

Change engine oil and filter. See *Engine Oil on page 10-9*. *An Emission Control Service.*

When the CHANGE ENGINE OIL SOON DIC message or Code 82 DIC message displays, service is required for the vehicle as soon as possible, within the next 1 000 km/ 600 mi. If driving under the best conditions, the engine oil life system might not indicate the need for vehicle service for more than a year. The engine oil and filter must be changed at least once a year and the oil life system must be reset.

Information Provided by: DEALER E-PROCESS

Your dealer has trained service technicians who will perform this work and reset the system. If the engine oil life system is reset accidentally, service the vehicle within 5 000 km/3,000 mi since the last service. Reset the oil life system whenever the oil is changed. See *Engine Oil Life System on page 10-12*.

Every Engine Oil Change

- Change engine oil and filter. Reset oil life system. See *Engine Oil on page 10-9* and *Engine Oil Life System on page 10-12*. *An Emission Control Service.*
- Engine coolant level check. See *Engine Coolant on page 10-17*.
- Engine cooling system inspection. Visual inspection of hoses, pipes, fittings, and clamps and replacement, if needed.
- Windshield washer fluid level check. See *Washer Fluid on page 10-22*.
- Windshield wiper blade inspection for wear, cracking, or contamination and windshield and wiper blade cleaning, if contaminated. See *Exterior Care on page 10-90*. Worn or damaged wiper blade replacement. See *Wiper Blade Replacement on page 10-29*.
- Tire inflation pressures check. See *Tire Pressure on page 10-50*.
- Tire wear inspection. See *Tire Inspection on page 10-56*.
- Rotate tires if necessary. See *Tire Rotation on page 10-57*.
- Fluids visual leak check (or every 12 months, whichever occurs first). A leak in any system must be repaired and the fluid level checked.
- Engine air cleaner filter inspection. See *Engine Air Cleaner/Filter on page 10-15*.
- Brake system inspection (or every 12 months, whichever occurs first).
- Steering and suspension inspection. Visual inspection for damaged, loose, or missing parts or signs of wear.
- Body hinges and latches, key lock cylinders, and folding seat hardware lubrication. See *Recommended Fluids and Lubricants on page 11-6*. More frequent lubrication may be required when the vehicle is exposed to a corrosive environment. Applying silicone grease on weatherstrips with a clean cloth makes them last longer, seal better, and not stick or squeak.

Information Provided by:
DEALER E-PROCESS

- Restraint system component check. See *Safety System Check on page 3-23*.
- Fuel system inspection for damage or leaks.
- Exhaust system and nearby heat shields inspection for loose or damaged components.

Additional Required Services

Every 12 000 km/7,500 Miles

- Rotate tires. Tires should be rotated every 12 000 km/ 7,500 mi. See *Tire Rotation on page 10-57*.

At Each Fuel Stop

- Engine oil level check. See *Engine Oil on page 10-9*.
- Engine coolant level check. See *Engine Coolant on page 10-17*.
- Windshield washer fluid level check. See *Washer Fluid on page 10-22*.

Once a Month

- Tire inflation check. See *Tire Pressure on page 10-50*.
- Tire wear inspection. See *Tire Inspection on page 10-56*.
- Sunroof track and seal inspection, if equipped. See *Sunroof on page 2-17*.

Once a Year

- See *Starter Switch Check on page 10-26*.
- See *Automatic Transmission Shift Lock Control Function Check on page 10-27*.
- See *Ignition Transmission Lock Check on page 10-28*.
- See *Park Brake and P (Park) Mechanism Check on page 10-28*.
- Accelerator pedal check for damage, high effort, or binding. Replace if needed.
- If the vehicle has a Tire Sealant and Compressor Kit, check the sealant expiration date printed on the instruction label of the kit. See *Tire Sealant and Compressor Kit on page 10-68*.

Information Provided by:
DEALER E-PROCESS

- Underbody flushing service.
- Hood/Decklid/Liftgate/Liftglass Support Gas Strut Service: Visually inspect gas strut, if equipped, for signs of wear, cracks, or other damage. Check the hold open ability of the gas strut. Contact your dealer if service is required.

First Engine Oil Change After Every 80 000 km/50,000 Miles

- Engine air cleaner filter replacement.
- Evaporative control system inspection. Check all fuel and vapor lines and hoses for proper hook-up, routing, and condition. Check that the purge valve, if the vehicle has one, works properly. Replace as needed. *An Emission Control Service. The U.S. Environmental Protection Agency or the California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty or limit recall liability prior to the completion of the vehicle's useful life. We, however, urge that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded.*

First Engine Oil Change After Every 160 000 km/100,000 Miles

- Spark plug replacement and spark plug wires inspection. *An Emission Control Service.*
- 1.8L L4 engine only: Timing belt replacement.

First Engine Oil Change After Every 240 000 km/150,000 Miles

- Engine cooling system drain, flush, and refill (or every five years, whichever occurs first). See *Cooling System on page 10-16. An Emission Control Service.*
- Engine drive belts inspection for fraying, excessive cracks, or obvious damage (or every 10 years, whichever occurs first). Replace, if needed.

Information Provided by: DEALER E-PROCESS

Recommended Fluids, Lubricants, and Parts

Recommended Fluids and Lubricants

Usage	Fluid/Lubricant
Engine Oil	The engine requires engine oil approved to the dexos™ specification. Oils meeting this specification can be identified with the dexos™ certification mark. Look for and use only an engine oil that displays the dexos™ certification mark of the proper viscosity grade. See *Engine Oil on page 10-9*.
Engine Coolant	50/50 mixture of clean, drinkable water and use only DEX-COOL Coolant. See *Engine Coolant on page 10-17*.
Hydraulic Brake System	DOT 3 Hydraulic Brake Fluid (GM Part No. 88862806, in Canada 88862807).
Windshield Washer	Optikleen® Washer Solvent.
Automatic Transmission	DEXRON®-VI Automatic Transmission Fluid.

Information Provided by: DEALER E-PROCESS

Usage	Fluid/Lubricant
Hydraulic Clutch System	DOT 3 Hydraulic Brake Fluid (GM Part No. 12377967, in Canada 89021320).
Manual Transmission	Castrol BOT 0402 Transmission Fluid (GM Part No. 9986259).
Key Lock Cylinders	Multi-Purpose Lubricant, Superlube (GM Part No. 12346241, in Canada 10953474).
Hood Latch Assembly, Secondary Latch, Pivots, Spring Anchor, and Release Pawl	Lubriplate Lubricant Aerosol (GM Part No. 12346293, in Canada 992723) or lubricant meeting requirements of NLGI #2, Category LB or GC-LB.
Hood, Door, and Folding Seat Hinges	Multi-Purpose Lubricant, Superlube (GM Part No. 12346241, in Canada 10953474).
Weatherstrip Conditioning	Weatherstrip Lubricant (GM Part No. 3634770, in Canada 10953518) or Dielectric Silicone Grease (GM Part No. 12345579, in Canada 992887).

Information Provided by:
DEALER E-PROCESS

Maintenance Replacement Parts

Replacement parts identified here by name, part number, or specification can be obtained from your dealer.

Part	GM Part Number	ACDelco Part Number
Engine Air Cleaner/Filter		
1.4L L4 Engine	13272719	AC3144C
1.8L L4 Engine	13272720	AC3145C
Engine Oil Filter		
1.4L L4 Engine	93185674	PF2257G
1.8L L4 Engine	93185674	PF2257G
Passenger Compartment Air Filter Element	13271191	CF176
Spark Plugs		
1.4L L4 Engine	55576026	—
1.8L L4 Engine	55576026	—
Wiper Blades		
Driver – 60.0 cm (23.6 in)	96910777	—
Passenger – 45.0 cm (17.7 in)	96910780	—

Information Provided by: DEALER E-PROCESS

Maintenance Records

After the scheduled services are performed, record the date, odometer reading, who performed the service, and the type of services performed in the boxes provided. Retain all maintenance receipts.

Maintenance Record

Date	Odometer Reading	Serviced By	Services Performed

Information Provided by:
DEALER E-PROCESS

Maintenance Record (cont'd)

Date	Odometer Reading	Serviced By	Services Performed

Information Provided by: DEALER E-PROCESS

Maintenance Record (cont'd)

Date	Odometer Reading	Serviced By	Services Performed

Information Provided by:
DEALER E-PROCESS

Maintenance Record (cont'd)

Date	Odometer Reading	Serviced By	Services Performed

Information Provided by:
DEALER E-PROCESS

Technical Data

Vehicle Identification
Vehicle Identification Number (VIN) 12-1
Service Parts Identification Label 12-1

Vehicle Data
Capacities and Specifications 12-2
Engine Drive Belt Routing . . . 12-4

Vehicle Identification

Vehicle Identification Number (VIN)



This legal identifier is in the front corner of the instrument panel, on the left side of the vehicle. It can be seen through the windshield from outside. The VIN also appears on the Vehicle Certification and Service Parts labels and certificates of title and registration.

Engine Identification

The eighth character in the VIN is the engine code. This code identifies the vehicle's engine, specifications, and replacement parts. See “Engine Specifications” under *Capacities and Specifications on page 12-2* for the vehicle's engine code.

Service Parts Identification Label

This label, on the inside of the glove box, has the following information:

- Vehicle Identification Number (VIN).
- Model designation.
- Paint information.
- Production options and special equipment.

Do not remove this label from the vehicle.

Information Provided by:
DEALER E-PROCESS

Vehicle Data

Capacities and Specifications

The following approximate capacities are given in English and metric conversions. Please refer to *Recommended Fluids and Lubricants on page 11-6* for more information.

Application	Capacities	
	Metric	English
Air Conditioning Refrigerant R134a	For the air conditioning system refrigerant charge amount, see the refrigerant label located under the hood. See your dealer for more information.	
Cooling System		
1.4L L4 Engine	5.5 L	5.8 qt
1.8L L4 Engine	6.5 L	6.9 qt
Engine Oil with Filter		
1.4L L4 Engine	4.0 L	4.25 qt
1.8L L4 Engine	4.5 L	4.76 qt
Fuel Tank		
Fuel Economy Model with (MH8) Automatic Transmission	59.0 L	15.6 gal
Fuel Economy Model with (MF3) Manual Transmission	59.0 L	15.6 gal

Information Provided by: DEALER E-PROCESS

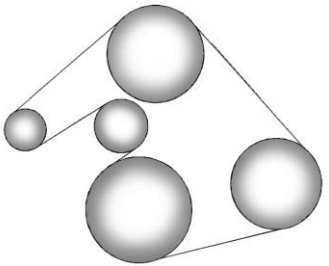
Application	Capacities	
	Metric	English
Except Fuel Economy Model	48.0 L	12.6 gal
Transmission Fluid		
Automatic — 6 Speed	4.0 L	4.2 qt
Wheel Nut Torque	140 N•m	100 lb ft
All capacities are approximate. When adding, be sure to fill to the approximate level, as recommended in this manual.		

Engine Specifications

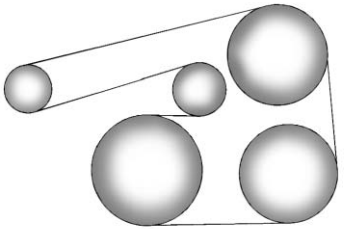
Engine	VIN Code	Transmission	Spark Plug Gap
1.4L L4 Engine	9	Automatic Manual	0.70 mm (0.028 in)
1.8L L4 Engine	H	Automatic Manual	0.70 mm (0.028 in)

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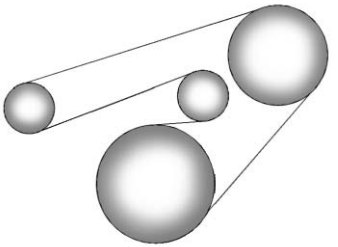
Engine Drive Belt Routing



1.4L L4 Engine



1.8L L4 Engine (with Air Conditioning)



1.8L L4 Engine (without Air Conditioning)

Information Provided by:
DEALER E-PROCESS

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Customer Information

Customer Satisfaction Procedure

Your satisfaction and goodwill are important to the dealer and to Chevrolet. Normally, any concerns with the sales transaction or the operation of the vehicle will be resolved by the dealer's sales or service departments. Sometimes, however, despite the best intentions of all concerned, misunderstandings can occur. If your concern has not been resolved to your satisfaction, the following steps should be taken:

STEP ONE: Discuss your concern with a member of dealership management. Normally, concerns can be quickly resolved at that level. If the matter has already been reviewed with the sales, service, or parts manager, contact the owner of the dealership or the general manager.

Information Provided by: DEALER E-PROCESS

STEP TWO: If after contacting a member of dealership management, it appears your concern cannot be resolved by the dealership without further help, in the U.S., call the Chevrolet Customer Assistance Center at 1-800-222-1020. In Canada, call General Motors of Canada Customer Communication Centre at 1-800-263-3777 (English), or 1-800-263-7854 (French).

We encourage you to call the toll-free number in order to give your inquiry prompt attention. Have the following information available to give the Customer Assistance representative:

- Vehicle Identification Number (VIN). This is available from the vehicle registration or title, or the plate at the top left of the instrument panel and visible through the windshield.
- Dealership name and location.
- Vehicle delivery date and present mileage.

When contacting Chevrolet, remember that your concern will likely be resolved at a dealer's facility. That is why we suggest following Step One first.

STEP THREE — U.S. Owners: Both General Motors and the dealer are committed to making sure you are completely satisfied with the new vehicle. However, if you continue to remain unsatisfied after following the procedure outlined in Steps One and Two, you can file with the Better Business Bureau (BBB) Auto Line® Program to enforce your rights.

The BBB Auto Line Program is an out of court program administered by the Council of Better Business Bureaus to settle automotive disputes regarding vehicle repairs or the interpretation of the New Vehicle Limited Warranty. Although you may be required to resort to this informal dispute resolution program prior to filing a court action, use of the program is free of charge and your case will generally be heard within 40 days. If you do not agree with the decision given in your case, you may reject it and proceed with any other venue for relief available to you.

You may contact the BBB Auto Line Program using the toll-free telephone number or write them at the following address:

BBB Auto Line Program
Council of Better Business Bureaus, Inc.
4200 Wilson Boulevard
Suite 800
Arlington, VA 22203-1838

Telephone: 1-800-955-5100
www.dr.bbb.org/goauto

This program is available in all 50 states and the District of Columbia. Eligibility is limited by vehicle age, mileage, and other factors. General Motors reserves the right to change eligibility limitations and/or discontinue its participation in this program.

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STEP THREE — Canadian Owners: In the event that you do not feel your concerns have been addressed after following the procedure outlined in Steps One and Two, General Motors of Canada Limited wants you to be aware of its participation in a no-charge Mediation/Arbitration Program. General Motors of Canada Limited has committed to binding arbitration of owner disputes involving factory-related vehicle service claims. The program provides for the review of the facts involved by an impartial third party arbiter, and may include an informal hearing before the arbiter. The program is designed so that the entire dispute settlement process, from the time you file your complaint to the final decision, should be completed in about 70 days. We believe our impartial program offers advantages over courts in most jurisdictions because it is informal, quick, and free of charge.

For further information concerning eligibility in the Canadian Motor Vehicle Arbitration Plan (CAMVAP), call toll-free 1-800-207-0685, or call the General Motors Customer Communication Centre, 1-800-263-3777 (English), 1-800-263-7854 (French), or write to:

The Mediation/Arbitration Program
c/o Customer Communication Centre
General Motors of Canada Limited
Mail Code: CA1-163-005
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

The inquiry should be accompanied by the Vehicle Identification Number (VIN).

Customer Assistance Offices

Chevrolet encourages customers to call the toll-free number for assistance. However, if a customer wishes to write or e-mail Chevrolet, the letter should be addressed to:

United States

Chevrolet Motor Division
Chevrolet Customer Assistance Center
P.O. Box 33170
Detroit, MI 48232-5170
www.Chevrolet.com

1-800-222-1020
1-800-833-2438 (For Text Telephone Devices (TTYs))
Roadside Assistance:
1-800-243-8872

From Puerto Rico:

1-800-496-9992 (English)
1-800-496-9993 (Spanish)

From U.S. Virgin Islands:

1-800-496-9994

Information Provided by: DEALER E-PROCESS

Canada

General Motors of Canada Limited
Customer Communication Centre,
Mail Code: CA1-163-005
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7
www.gm.ca

1-800-263-3777 (English)
1-800-263-7854 (French)
1-800-263-3830 (For Text Telephone devices (TTYs))
Roadside Assistance:
1-800-268-6800

Overseas

Please contact the local General Motors Business Unit.

Mexico, Central America, and Caribbean Islands/Countries (Except Puerto Rico and U.S. Virgin Islands)

General Motors de Mexico, S. de R.L. de C.V.
Customer Assistance Center
Av. Ejercito Nacional #843
Col. Granada
C.P. 11520, Mexico, D.F.

01-800-466-0800
Long Distance: 011-52-53 29 0800

Customer Assistance for Text Telephone (TTY) Users

To assist customers who are deaf, hard of hearing, or speech-impaired and who use Text Telephones (TTYs), Chevrolet has TTY equipment available at its Customer Assistance Center. Any TTY user in the U.S. can communicate with Chevrolet by dialing: 1-800-833-2438. TTY users in Canada can dial 1-800-263-3830.

Information Provided by: DEALER E-PROCESS

Online Owner Center

Chevrolet Owner Center (U.S.) www.chevyownercenter.com

Information and services customized for your specific vehicle — all in one convenient place.

- Digital owner manual, warranty information, and more.
- Store online service and maintenance records.
- Chevrolet dealer locator for service nationwide.
- Exclusive privileges and offers.
- Recall notices for your specific vehicle.
- OnStar and GM Cardmember Services Earnings summaries.

Other Helpful Links

Chevrolet — www.chevrolet.com

Chevrolet Merchandise — www.chevymall.com

Help Center — www.chevrolet.com/pages/mds/helpcenter/faq.do

- FAQ
- Contact Us

My GM Canada — www.gm.ca

My GM Canada is a password-protected section of www.gm.ca where you can save information on GM vehicles, get personalized offers, and use handy tools and forms with greater ease.

Here are a few of the valuable tools and services you will have access to:

- My Showroom: Find and save information on vehicles and current offers in your area.
- My Dealers: Save details such as address and phone number for each of your preferred GM dealers.
- My Driveway: Access quick links to parts and service estimates, check trade-in values, or schedule a service appointment by adding the vehicles you own to your driveway profile.
- My Preferences: Manage your profile and use tools and forms with greater ease.

To sign up, visit the My GM.ca section within www.gm.ca.

GM Mobility Reimbursement Program

This program is available to qualified applicants for cost reimbursement of eligible aftermarket adaptive equipment required for the vehicle, such as hand controls or a wheelchair/scooter lift for the vehicle.

For more information on the limited offer, visit www.gmmobility.com or call the GM Mobility Assistance Center at 1-800-323-9935. Text Telephone (TTY) users, call 1-800-833-9935.

Information Provided by: DEALER E-PROCESS

General Motors of Canada also has a Mobility Program. Call 1-800-GM-DRIVE (463-7483) for details. TTY users call 1-800-263-3830.

Roadside Assistance Program

For U.S.-purchased vehicles, call **1-800-243-8872; (Text Telephone (TTY): 1-888-889-2438)**.

For Canadian-purchased vehicles, call **1-800-268-6800**.

Service is available 24 hours a day, 365 days a year.

Calling for Assistance

When calling Roadside Assistance, have the following information ready:

- Your name, home address, and home telephone number
- Telephone number of your location
- Location of the vehicle
- Model, year, color, and license plate number of the vehicle
- Odometer reading, Vehicle Identification Number (VIN), and delivery date of the vehicle
- Description of the problem

Coverage

Services are provided up to 5 years/ 160 000 km (100,000 miles), whichever comes first.

In the U.S., anyone driving the vehicle is covered. In Canada, a person driving the vehicle without permission from the owner is not covered.

Roadside Assistance is not a part of the New Vehicle Limited Warranty. Chevrolet and General Motors of Canada Limited reserve the right to make any changes or discontinue the Roadside Assistance program at any time without notification.

Chevrolet and General Motors of Canada Limited reserve the right to limit services or payment to an owner or driver if they decide the claims are made too often, or the same type of claim is made many times.

Services Provided

- **Emergency Fuel Delivery:** Delivery of enough fuel for the vehicle to get to the nearest service station.
- **Lock-Out Service:** Service to unlock the vehicle if you are locked out. A remote unlock may be available if you have OnStar. For security reasons, the driver must present identification before this service is given.

Information Provided by: DEALER E-PROCESS

- **Emergency Tow From a Public Road or Highway:** Tow to the nearest Chevrolet dealer for warranty service, or if the vehicle was in a crash and cannot be driven. Assistance is also given when the vehicle is stuck in the sand, mud, or snow.
- **Flat Tire Change:** Service to change a flat tire with the spare tire. The spare tire, if equipped, must be in good condition and properly inflated. It is the owner's responsibility for the repair or replacement of the tire if it is not covered by the warranty.
- **Battery Jump Start:** Service to jump start a dead battery.

Services Not Included in Roadside Assistance

- Impound towing caused by violation of any laws.
- Legal fines.
- Mounting, dismounting, or changing of snow tires, chains, or other traction devices.
- Towing or services for vehicles driven on a non-public road or highway.

Services Specific to Canadian-Purchased Vehicles

- **Fuel Delivery:** Reimbursement is approximately $5 Canadian. Diesel fuel delivery may be restricted. Propane and other fuels are not provided through this service.
- **Lock-Out Service:** Vehicle registration is required.
- **Trip Routing Service:** Detailed maps of North America are provided when requested either with the most direct route or the most scenic route. There is a limit of six requests per year. Additional travel information is also available. Allow three weeks for delivery.
- **Trip Interruption Benefits and Assistance:** Must be over 250 kilometers from where your trip was started to qualify. General Motors of Canada Limited requires pre-authorization, original detailed receipts, and a copy of the repair orders. Once authorization has been received, the Roadside Assistance advisor will help to make arrangements and explain how to receive payment.
- **Alternative Service:** If assistance cannot be provided right away, the Roadside Assistance advisor may give permission to get local emergency road service. You will receive payment, up to $100, after sending the original receipt to Roadside Assistance. Mechanical failures may be covered, however any cost for parts and labor for repairs not covered by the warranty are the owner responsibility.

Information Provided by: DEALER E-PROCESS

Scheduling Service Appointments

When the vehicle requires warranty service, contact the dealer and request an appointment. By scheduling a service appointment and advising the service consultant of your transportation needs, the dealer can help minimize your inconvenience.

If the vehicle cannot be scheduled into the service department immediately, keep driving it until it can be scheduled for service, unless, of course, the problem is safety related. If it is, please call the dealership, let them know this, and ask for instructions.

If the dealer requests you to bring the vehicle for service, you are urged to do so as early in the work day as possible to allow for the same day repair.

Courtesy Transportation Program

To enhance your ownership experience, we and our participating dealers are proud to offer Courtesy Transportation, a customer support program for vehicles with the Bumper to Bumper (Base Warranty Coverage period in Canada), extended powertrain, and/or hybrid-specific warranties in both the U.S. and Canada.

Several Courtesy Transportation options are available to assist in reducing your inconvenience when warranty repairs are required.

Courtesy Transportation is not a part of the New Vehicle Limited Warranty. A separate booklet entitled “Warranty and Owner Assistance Information” furnished with each new vehicle provides detailed warranty coverage information.

Transportation Options

Warranty service can generally be completed while you wait. However, if you are unable to wait, GM helps to minimize your inconvenience by providing several transportation options. Depending on the circumstances, the dealer can offer you one of the following:

Shuttle Service

Shuttle service is the preferred means of offering Courtesy Transportation. Dealers may provide shuttle service to get you to your destination with minimal interruption of your daily schedule. This includes one-way or round-trip shuttle service within reasonable time and distance parameters of the dealer's area.

Information Provided by: DEALER E-PROCESS

Public Transportation or Fuel Reimbursement

If the vehicle requires overnight warranty repairs, and public transportation is used instead of the dealer's shuttle service, the expense must be supported by original receipts and can only be up to the maximum amount allowed by GM for shuttle service. In addition, for U.S. customers, should you arrange transportation through a friend or relative, limited reimbursement for reasonable fuel expenses may be available. Claim amounts should reflect actual costs and be supported by original receipts. See the dealer for information regarding the allowance amounts for reimbursement of fuel or other transportation costs.

Courtesy Rental Vehicle

The dealer may arrange to provide you with a courtesy rental vehicle or reimburse you for a rental vehicle that you obtain if the vehicle is kept for an overnight warranty repair. Rental reimbursement will be limited and must be supported by original receipts. This requires that you sign and complete a rental agreement and meet state/provincial, local, and rental vehicle provider requirements. Requirements vary and may include minimum age requirements, insurance coverage, credit card, etc. You are responsible for fuel usage charges and may also be responsible for taxes, levies, usage fees, excessive mileage, or rental usage beyond the completion of the repair.

It may not be possible to provide a like vehicle as a courtesy rental.

Additional Program Information

All program options, such as shuttle service, may not be available at every dealer. Please contact the dealer for specific information about availability. All Courtesy Transportation arrangements will be administered by appropriate dealer personnel.

General Motors reserves the right to unilaterally modify, change, or discontinue Courtesy Transportation at any time and to resolve all questions of claim eligibility pursuant to the terms and conditions described herein at its sole discretion.

Information Provided by: DEALER E-PROCESS

Collision Damage Repair

If the vehicle is involved in a collision and it is damaged, have the damage repaired by a qualified technician using the proper equipment and quality replacement parts. Poorly performed collision repairs diminish the vehicle resale value, and safety performance can be compromised in subsequent collisions.

Collision Parts

Genuine GM Collision parts are new parts made with the same materials and construction methods as the parts with which the vehicle was originally built. Genuine GM Collision parts are the best choice to ensure that the vehicle's designed appearance, durability, and safety are preserved. The use of Genuine GM parts can help maintain the GM New Vehicle Limited Warranty.

Recycled original equipment parts may also be used for repair. These parts are typically removed from vehicles that were total losses in prior crashes. In most cases, the parts being recycled are from undamaged sections of the vehicle. A recycled original equipment GM part may be an acceptable choice to maintain the vehicle's originally designed appearance and safety performance; however, the history of these parts is not known. Such parts are not covered by the GM New Vehicle Limited Warranty, and any related failures are not covered by that warranty.

Aftermarket collision parts are also available. These are made by companies other than GM and may not have been tested for the vehicle. As a result, these parts may fit poorly, exhibit premature durability/ corrosion problems, and may not perform properly in subsequent collisions. Aftermarket parts are not covered by the GM New Vehicle Limited Warranty, and any vehicle failure related to such parts is not covered by that warranty.

Repair Facility

GM also recommends that you choose a collision repair facility that meets your needs before you ever need collision repairs. The dealer may have a collision repair center with GM-trained technicians and state-of-the-art equipment, or be able to recommend a collision repair center that has GM-trained technicians and comparable equipment.

Insuring The Vehicle

Protect your investment in the GM vehicle with comprehensive and collision insurance coverage. There are significant differences in the quality of coverage afforded by various insurance policy terms. Many insurance policies provide reduced protection to the GM vehicle by limiting compensation for damage repairs by using aftermarket collision parts. Some insurance companies will not specify aftermarket collision parts. When purchasing insurance, we

Information Provided by: DEALER E-PROCESS

recommend that you ensure that the vehicle will be repaired with GM original equipment collision parts. If such insurance coverage is not available from your current insurance carrier, consider switching to another insurance carrier.

If the vehicle is leased, the leasing company may require you to have insurance that ensures repairs with Genuine GM Original Equipment Manufacturer (OEM) parts or Genuine Manufacturer replacement parts. Read the lease carefully, as you may be charged at the end of the lease for poor quality repairs.

If a Crash Occurs

If there has been an injury, call emergency services for help. Do not leave the scene of a crash until all matters have been taken care of. Move the vehicle only if its position puts you in danger, or you are instructed to move it by a police officer.

Give only the necessary information to police and other parties involved in the crash.

For emergency towing see *Roadside Assistance Program on page 13-6*.

Gather the following information:

- Driver name, address, and telephone number.
- Driver license number.
- Owner name, address, and telephone number.
- Vehicle license plate number.
- Vehicle make, model, and model year.
- Vehicle Identification Number (VIN).
- Insurance company and policy number.
- General description of the damage to the other vehicle.

Choose a reputable repair facility that uses quality replacement parts. See “Collision Parts” earlier in this section.

If the airbag has inflated, see *What Will You See After an Airbag Inflates? on page 3-31* What Will You See After an Airbag Inflates? .

Managing the Vehicle Damage Repair Process

In the event that the vehicle requires damage repairs, GM recommends that you take an active role in its repair. If you have a pre-determined repair facility of choice, take the vehicle there, or have it towed there. Specify to the facility that any required replacement collision parts be original equipment parts, either new Genuine GM parts or recycled original GM parts. Remember, recycled parts will not be covered by the GM vehicle warranty.

Information Provided by: DEALER E-PROCESS

Insurance pays the bill for the repair, but you must live with the repair. Depending on your policy limits, your insurance company may initially value the repair using aftermarket parts. Discuss this with the repair professional, and insist on Genuine GM parts. Remember, if the vehicle is leased, you may be obligated to have the vehicle repaired with Genuine GM parts, even if your insurance coverage does not pay the full cost.

If another party's insurance company is paying for the repairs, you are not obligated to accept a repair valuation based on that insurance company's collision policy repair limits, as you have no contractual limits with that company. In such cases, you can have control of the repair and parts choices as long as the cost stays within reasonable limits.

Service Publications Ordering Information

Service Manuals

Service Manuals have the diagnosis and repair information on the engines, transmission, axle, suspension, brakes, electrical, steering, body, etc.

Service Bulletins

Service Bulletins give additional technical service information needed to knowledgeably service General Motors cars and trucks. Each bulletin contains instructions to assist in the diagnosis and service of the vehicle.

Owner Information

Owner publications are written specifically for owners and intended to provide basic operational information about the vehicle. The Owner Manual includes the Maintenance Schedule for all models.

In-Portfolio: Includes a Portfolio, Owner Manual, and Warranty Booklet.

RETAIL SELL PRICE: $35.00 (U.S.) plus handling and shipping fees.

Without Portfolio: Owner Manual only.

RETAIL SELL PRICE: $25.00 (U.S.) plus handling and shipping fees.

Information Provided by: DEALER E-PROCESS

Current and Past Models

Technical Service Bulletins and Manuals are available for current and past model GM vehicles.

ORDER TOLL FREE:
1-800-551-4123 Monday - Friday
8:00 AM - 6:00 PM Eastern Time

For Credit Card Orders Only (VISA-MasterCard-Discover), visit Helm, Inc. at: www.helminc.com.

Or you can write to:

Helm, Incorporated
P.O. Box 07130
Detroit, MI 48207

Prices are subject to change without notice and without incurring obligation. Allow ample time for delivery.

All listed prices are quoted in U.S. funds. Make checks payable in U.S. funds.

Reporting Safety Defects

Reporting Safety Defects to the United States Government

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying General Motors.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or General Motors.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to *http://www.safercar.gov;* or write to:

Administrator, NHTSA
1200 New Jersey Avenue, S.E.
Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from *http://www.safercar.gov*.

Information Provided by: DEALER E-PROCESS

Reporting Safety Defects to the Canadian Government

If you live in Canada, and you believe that the vehicle has a safety defect, notify Transport Canada immediately, and notify General Motors of Canada Limited. Call them at 1-800-333-0510 or write to:

Transport Canada
Road Safety Branch
2780 Sheffield Road
Ottawa, Ontario K1B 3V9

Reporting Safety Defects to General Motors

In addition to notifying NHTSA (or Transport Canada) in a situation like this, notify General Motors.

Call 1-800-222-1020, or write:

Chevrolet Motor Division
Chevrolet Customer Assistance Center
P.O. Box 33170
Detroit, MI 48232-5170

In Canada, call 1-800-263-3777 (English) or 1-800-263-7854 (French), or write:

General Motors of Canada Limited
Customer Communication Centre, Mail Code: CA1-163-005
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

Vehicle Data Recording and Privacy

This GM vehicle has a number of sophisticated computers that record information about the vehicle's performance and how it is driven. For example, the vehicle uses computer modules to monitor and control engine and transmission performance, to monitor the conditions for airbag deployment and deploy airbags in a crash, and, if so equipped, to provide antilock braking to help the driver control the vehicle. These modules may store data to help the dealer technician service the vehicle. Some modules may also store data about how you operate the vehicle, such as rate of fuel consumption or average speed. These modules may also retain the owner's personal preferences, such as radio pre-sets, seat positions, and temperature settings.

Information Provided by:
DEALER E-PROCESS

Event Data Recorders

This vehicle has an Event Data Recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an airbag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in the vehicle were operating.
- Whether or not the driver and passenger safety belts were buckled/fastened.
- How far, if at all, the driver was pressing the accelerator and/or brake pedal.
- How fast the vehicle was traveling.

This data can help provide a better understanding of the circumstances in which crashes and injuries occur.

Important: EDR data is recorded by the vehicle only if a non-trivial crash situation occurs; no data is recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) is recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

GM will not access this data or share it with others except: with the consent of the vehicle owner or, if the vehicle is leased, with the consent of the lessee; in response to an official request by police or similar government office; as part of GM's defense of litigation through the discovery process; or, as required by law. Data that GM collects or receives may also be used for GM research needs or may be made available to others for research purposes, where a need is shown and the data is not tied to a specific vehicle or vehicle owner.

Information Provided by:
DEALER E-PROCESS

OnStar®

If the vehicle is equipped with an active OnStar system, that system may also record data in crash or near crash-like situations. The OnStar Terms and Conditions provides information on data collection and use and is available in the OnStar glove box kit, at www.onstar.com (U.S.) or www.onstar.ca (Canada), or by pressing the button and speaking to an advisor.

Navigation System

If the vehicle has a navigation system, use of the system may result in the storage of destinations, addresses, telephone numbers, and other trip information. Refer to the navigation system operating manual for information on stored data and for deletion instructions.

Radio Frequency Identification (RFID)

RFID technology is used in some vehicles for functions such as tire pressure monitoring and ignition system security, as well as in connection with conveniences such as key fobs for remote door locking/unlocking and starting, and in-vehicle transmitters for garage door openers. RFID technology in GM vehicles does not use or record personal information or link with any other GM system containing personal information.

Radio Frequency Statement

This vehicle has systems that operate on a radio frequency that comply with Part 15 of the Federal Communications Commission (FCC) rules and with Industry Canada Standards RSS-210/220/310.

Operation is subject to the following two conditions:

1. The device may not cause interference.
2. The device must accept any interference received, including interference that may cause undesired operation of the device.

Changes or modifications to any of these systems by other than an authorized service facility could void authorization to use this equipment.

Information Provided by: DEALER E-PROCESS

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